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КАТАЛОГ ОБОРУДОВАНИЯ BAUMER
























sample picture	product family	housing	sensing distance min.	sensing distance max.	features
	IR12.D04L (analog & digital) Inductive distance measuring sensors	12x60 mm, metal	0 mm	4 mm	<ul style="list-style-type: none"> • AlphaProx • linearized • Teach-in • integrated Analog- and switching output • IP 67
	IR12.D06L (analog & digital) Inductive distance measuring sensors	12x60 mm, metal	0 mm	6 mm	<ul style="list-style-type: none"> • AlphaProx • large measuring distance • linearized • Teach-in • integrated Analog- and switching output • IP 67
	IR12.D06L (analog) Inductive distance measuring sensors	12x60 mm, metal	0 mm	6 mm	<ul style="list-style-type: none"> • AlphaProx • large measuring distance • linearized • Teach-in • IP 67
	IR18.D08F (factor 1) Inductive distance measuring sensors	18x60 mm, metal	0 mm	8 mm	<ul style="list-style-type: none"> • AlphaProx • Factor 1 (all metal sensor) • large measuring distance • linearized • Teach-in • IP 67
	IR18.D08L (analog & digital) Inductive distance measuring sensors	18x60 mm, metal	0 mm	8 mm	<ul style="list-style-type: none"> • AlphaProx • large measuring distance • linearized • Teach-in • Integrated Analog- and switching output • IP 67
	IR18.D08L (analog) Inductive distance measuring sensors	18x60 mm, metal	0 mm	8 mm	<ul style="list-style-type: none"> • AlphaProx • large measuring distance • linearized • Teach-in • IP 67
	IR18.D08M (Alu) Inductive distance measuring sensors	18x60 mm, metal	0 mm	8 mm	<ul style="list-style-type: none"> • AlphaProx • optimized for aluminum • linearized • Teach-in • IP 67
	IR12.D03K (analog) Inductive distance measuring sensors	12x60 mm, metal	2,75 mm	3 mm	<ul style="list-style-type: none"> • AlphaProx • high sensitivity • linearized • Teach-in • IP 67
	IR18.D03K (analog) Inductive distance measuring sensors	18x60 mm, metal	2,75 mm	3 mm	<ul style="list-style-type: none"> • AlphaProx • high sensitivity • linearized • Teach-in • IP 67
	IWRM 12Z (Teach-in) Inductive distance measuring sensors	12x60 mm, metal	0 mm	4 mm	<ul style="list-style-type: none"> • AlphaProx • Teach-in • linearized • IP 67
	IR06.D03L Inductive distance measuring sensors	6,5x40 mm, metal	0 mm	3 mm	<ul style="list-style-type: none"> • AlphaProx • large measuring distance • linearized • IP 67












	<p>IR08.D03L</p> <p>Inductive distance measuring sensors</p>	<p>8x46 mm, metal</p>	<p>0 mm</p>	<p>3 mm</p>	<ul style="list-style-type: none"> • AlphaProx • large measuring distance • linearized • IP 67
	<p>IWM 18</p> <p>Inductive distance measuring sensors</p>	<p>18x30 mm, metal</p>	<p>0 mm</p>	<p>4 mm</p>	<ul style="list-style-type: none"> • AlphaProx • resolution 1µm / 5µm • IP 67
	<p>IWRM 18Z (Teach-in)</p> <p>Inductive distance measuring sensors</p>	<p>18x60 mm, metal</p>	<p>0 mm</p>	<p>8 mm</p>	<ul style="list-style-type: none"> • AlphaProx • Teach-in • linearized • IP 67
	<p>IWRM 30Z (Teach-in)</p> <p>Inductive distance measuring sensors</p>	<p>30x62 mm, metal</p>	<p>0 mm</p>	<p>16 mm</p>	<ul style="list-style-type: none"> • AlphaProx • Teach-in • linearized • IP 67
	<p>IWK 20 (Teach-in)</p> <p>Inductive distance measuring sensors</p>	<p>20x42 mm, plastic</p>	<p>0 mm</p>	<p>10 mm</p>	<ul style="list-style-type: none"> • AlphaProx • Teach-in • linearized • IP 67











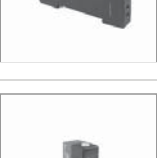
sample picture	product family	housing	sensing distance min.	sensing distance max.	features
	O500H.GP Diffuse sensors with background suppression	20,2x47,7x36,4 mm, metal	60 mm	400 mm	<ul style="list-style-type: none"> • hygiene design • PinPoint LED • small beam diameter • short response time • IO-Link • Teach-in • IP 68/69K & proTect+
	O500W.GP (Retro series 14) Diffuse sensors with background suppression	20,2x47,9x37,7 mm, metal	60 mm	400 mm	<ul style="list-style-type: none"> • washdown design • PinPoint LED • small beam diameter • short response time • IO-Link • Teach-in • IP 68/69K & proTect+
	O500W.GP Diffuse sensors with background suppression	20,2x47,2x37,7 mm, metal	60 mm	400 mm	<ul style="list-style-type: none"> • washdown design • PinPoint LED • small beam diameter • short response time • IO-Link • qTeach • IP 68/69K & proTect+
	O500H.SP SmartReflect Light barriers	20,2x47,7x36,4 mm, metal	-	1000 mm	<ul style="list-style-type: none"> • hygiene design • PinPoint LED • IO-Link • Teach-in • short response time • IP 68/69K & proTect+
	O500W.SP (Retro series 14) SmartReflect Light barriers	20,2x47,9x37,7 mm, metal	-	600 mm	<ul style="list-style-type: none"> • washdown design • PinPoint LED • IO-Link • Teach-in • short response time • IP 68/69K & proTect+
	O500W.SP SmartReflect Light barriers	20,2x47,2x37,7 mm, metal	-	1000 mm	<ul style="list-style-type: none"> • washdown design • PinPoint LED • IO-Link • qTeach • short response time • IP 68/69K & proTect+
	OR18W.GR Diffuse sensors with background suppression	18x71,9 mm, metal	40 mm	120 mm	<ul style="list-style-type: none"> • washdown design • sensing distance adjustable via potentiometer • IP 67/69K
	O300.SL (Laser) SmartReflect Light barriers	12,9x32,3x23 mm, plastic	-	250 mm	<ul style="list-style-type: none"> • One inch class • laser diode • very small beam diameter • IO-Link • qTeach • IP 67
	O300.SP SmartReflect Light barriers	12,9x32,3x23 mm, plastic	-	300 mm	<ul style="list-style-type: none"> • One inch class • PinPoint LED • IO-Link • qTeach • short response time • IP 67
	O300H.SL (Laser) SmartReflect Light barriers	16,5x34,6x28,7 mm, metal	-	250 mm	<ul style="list-style-type: none"> • One inch class • hygiene design • laser diode • very small beam diameter • IO-Link • Teach-in • IP 68/69K & proTect+
	O300H.SP SmartReflect Light barriers	16,5x34,6x28,7 mm, metal	-	300 mm	<ul style="list-style-type: none"> • One inch class • hygiene design • PinPoint LED • IO-Link • Teach-in












					<ul style="list-style-type: none"> • short response time • IP 68/69K & proTect+
	O300W.SL (Laser) SmartReflect Light barriers	16,5x34,7x28,2 mm, metal	-	250 mm	<ul style="list-style-type: none"> • One inch class • washdown design • laser diode • very small beam diameter • IO-Link • qTeach • IP 68/69K & proTect+
	O300W.SP SmartReflect Light barriers	16,5x34,7x28,2 mm, metal	-	300 mm	<ul style="list-style-type: none"> • One inch class • washdown design • PinPoint LED • IO-Link • qTeach • short response time • IP 68/69K & proTect+
	OR18.SP SmartReflect Light barriers	18x65 mm, metal	-	300 mm	<ul style="list-style-type: none"> • PinPoint LED • qTeach • short response time • IP 67
	O300.RL (Laser) Retro-reflective sensors	12,9x32,3x23 mm, plastic	-	5 m	<ul style="list-style-type: none"> • One inch class • laser diode • polarization filter to detect shiny objects • very short response time • IO-Link • qTeach • IP 67
	O300.RP Retro-reflective sensors	12,9x32,3x23 mm, plastic	-	5 m	<ul style="list-style-type: none"> • One inch class • PinPoint LED • polarization filter to detect shiny objects • small beam diameter • IO-Link • qTeach • IP 67
	O300.GL (Laser) Diffuse sensors with background suppression	12,9x32,3x23 mm, plastic	30 mm	250 mm	<ul style="list-style-type: none"> • One inch class • laser diode • very small beam diameter • IO-Link • qTeach • IP 67
	O300.GP Diffuse sensors with background suppression	12,9x32,3x23 mm, plastic	30 mm	200 mm	<ul style="list-style-type: none"> • One inch class • PinPoint LED • small beam diameter • short response time • IO-Link • qTeach • IP 67
	O500.GP Diffuse sensors with background suppression	18x45x32 mm, plastic	60 mm	400 mm	<ul style="list-style-type: none"> • PinPoint LED • small beam diameter • short response time • IO-Link • qTeach • IP 67
	OR18.GP Diffuse sensors with background suppression	18x65 mm, metal	45 mm	200 mm	<ul style="list-style-type: none"> • PinPoint LED • small beam diameter • short response time • qTeach • IP 67
	OR18.GR.F Diffuse sensors with background suppression	18x48,3 mm, plastic	50 mm	50 mm	<ul style="list-style-type: none"> • fixed sensing distance • small beam diameter • IP 67












	OR18.GR Diffuse sensors with background suppression	18x71,9 mm, plastic	40 mm	120 mm	<ul style="list-style-type: none"> sensing distance adjustable via potentiometer IP 67
	O300H.GL (Laser) Diffuse sensors with background suppression	16,5x34,6x28,7 mm, metal	30 mm	250 mm	<ul style="list-style-type: none"> One inch class hygiene design laser diode very small beam diameter IO-Link Teach-in IP 68/69K & proTect+
	O300H.GP Diffuse sensors with background suppression	16,5x34,6x28,7 mm, metal	30 mm	200 mm	<ul style="list-style-type: none"> One inch class hygiene design PinPoint LED small beam diameter short response time IO-Link Teach-in IP 68/69K & proTect+
	O300W.GL (Laser) Diffuse sensors with background suppression	16,5x34,7x28,2 mm, metal	30 mm	250 mm	<ul style="list-style-type: none"> One inch class washdown design laser diode very small beam diameter IO-Link qTeach IP 68/69K & proTect+
	O300W.GP Diffuse sensors with background suppression	16,5x34,7x28,2 mm, metal	30 mm	200 mm	<ul style="list-style-type: none"> One inch class washdown design PinPoint LED small beam diameter short response time IO-Link qTeach IP 68/69K & proTect+
	O500.SP SmartReflect Light barriers	18x45x32 mm, plastic	-	1000 mm	<ul style="list-style-type: none"> PinPoint LED IO-Link qTeach short response time IP 67
	O500.RP Retro-reflective sensors	18x45x32 mm, plastic	-	7,5 m	<ul style="list-style-type: none"> PinPoint LED polarization filter to detect shiny objects small beam diameter IO-Link qTeach IP 67
	OR18.RR Retro-reflective sensors	18x44,8 mm, plastic	-	3,5 m	<ul style="list-style-type: none"> polarization filter to detect shiny objects sensitivity adjustable via potentiometer suppression of mutual optical interference IP 67
	OR18.RR.T Retro-reflective sensors	18x67,2 mm, plastic	-	0,5 m	<ul style="list-style-type: none"> designed for detection of transparent objects polarization filter to detect shiny objects sensitivity adjustable via potentiometer suppression of mutual optical interference IP 67
	OR18.RL (Laser) Retro-reflective sensors	18x77 mm, metal	-	15 m	<ul style="list-style-type: none"> short response time long range polarization filter to detect shiny objects sensitivity adjustable via potentiometer suppression of mutual optical interference IP 67
	O300H.RL (Laser) Retro-reflective sensors	16,5x34,6x28,7 mm, metal	-	5 m	<ul style="list-style-type: none"> One inch class hygiene design laser diode polarization filter to detect shiny objects












					<ul style="list-style-type: none"> • very short response time • IO-Link • Teach-in • IP 68/69K & proTect+
	O300H.RP Retro-reflective sensors	16,5x34,6x28,7 mm, metal	-	5 m	<ul style="list-style-type: none"> • One inch class • hygiene design • PinPoint LED • polarization filter to detect shiny objects • small beam diameter • IO-Link • Teach-in • IP 68/69K & proTect+
	O300W.RL (Laser) Retro-reflective sensors	16,5x34,7x28,2 mm, metal	-	5 m	<ul style="list-style-type: none"> • One inch class • washdown design • laser diode • polarization filter to detect shiny objects • very short response time • IO-Link • qTeach • IP 68/69K & proTect+
	O300W.RP Retro-reflective sensors	16,5x34,7x28,2 mm, metal	-	5 m	<ul style="list-style-type: none"> • One inch class • washdown design • PinPoint LED • polarization filter to detect shiny objects • small beam diameter • IO-Link • qTeach • IP 68/69K & proTect+
	O500H.RP Retro-reflective sensors	20,2x47,7x36,4 mm, metal	-	7,5 m	<ul style="list-style-type: none"> • hygiene design • PinPoint LED • polarization filter to detect shiny objects • small beam diameter • IO-Link • Teach-in • IP 68/69K & proTect+
	O500W.RP (Retro series 14) Retro-reflective sensors	20,2x47,2x37,7 mm, metal	-	7,5 m	<ul style="list-style-type: none"> • washdown design • PinPoint LED • polarization filter to detect shiny objects • small beam diameter • Teach-in • IP 68/69K & proTect+
	O500W.RP Retro-reflective sensors	20,2x47,2x37,7 mm, metal	-	7,5 m	<ul style="list-style-type: none"> • washdown design • PinPoint LED • polarization filter to detect shiny objects • small beam diameter • IO-Link • qTeach • IP 68/69K & proTect+
	OR18W.RR Retro-reflective sensors	18x67,2 mm, metal	-	3,5 m	<ul style="list-style-type: none"> • washdown design • polarization filter to detect shiny objects • sensitivity adjustable via potentiometer • suppression of mutual optical interference • IP 67/69K
	OR18W.RR.T Retro-reflective sensors	18x67,2 mm, metal	-	0,5 m	<ul style="list-style-type: none"> • washdown design • designed for detection of transparent objects • polarization filter to detect shiny objects • sensitivity adjustable via potentiometer • suppression of mutual optical interference • IP 67/69K
	FHCK 07 Diffuse sensors with background suppression	8x16,2x10,8 mm, plastic	10 mm	60 mm	<ul style="list-style-type: none"> • ultra compact housing • sensing distance adjustable via Teach-in • suppression of mutual optical interference • IP 65
	FHDK 10 (adjustable sensing distance)	10,4x27x14 mm, plastic	20 mm	120 mm	<ul style="list-style-type: none"> • compact housing • large sensing range • sensing distance adjustable via











	Diffuse sensors with background suppression					<ul style="list-style-type: none"> • IP 67
	FHDK 14 (mechanically adjustable) Diffuse sensors with background suppression	14,8x43x31 mm, plastic	20 mm	500 mm		<ul style="list-style-type: none"> • long range • sensing distance adjustable via potentiometer • suppression of mutual optical interference • IP 67
	FHDK 04 Diffuse sensors with background suppression	4x44,8x6,2 mm, plastic	30 mm ±2 mm	50 mm ±3 mm		<ul style="list-style-type: none"> • compact housing • small beam diameter • push-pull output • IP 65
	FHDM 12 Diffuse sensors with background suppression	12,4x35x35 mm, metal	15 mm	300 mm		<ul style="list-style-type: none"> • rugged miniature metal housing • sensing distance adjustable via potentiometer • suppression of mutual optical interference • IP 67
	FPDK 10 Retro-reflective sensors	10,4x27x16,3 mm, plastic	-	3,5 m		<ul style="list-style-type: none"> • compact housing • polarization filter to detect shiny objects • suppression of mutual optical interference • IP 67
	FPDK 14 Retro-reflective sensors	14,8x43x31 mm, plastic	-	7 m		<ul style="list-style-type: none"> • polarization filter to detect shiny objects • single lens optics (FPDK 14x5111/S35A) • suppression of mutual optical interference • IP 67
	FRDK 14 (for transparent Objects) Retro-reflective sensors	14,8x43x31 mm, plastic	-	7 m		<ul style="list-style-type: none"> • designed for detection of transparent objects • sensitivity adjustable via Teach-in • short response time • IP 67
	FNDR 14 SmartReflect Light barriers	19,6x51x34,3 mm, metal	-	800 mm on V4A		<ul style="list-style-type: none"> • washdown design • IO-Link • remote Teach-in • IP 68/69K & proTect+
	FHDH 14 Diffuse sensors with background suppression	19,6x52,2x34,3 mm, metal	50 mm	400 mm		<ul style="list-style-type: none"> • hygiene design • remote Teach-in • IP 68/69K & proTect+
	FHDR 14 Diffuse sensors with background suppression	19,6x51x34,3 mm, metal	50 mm	400 mm		<ul style="list-style-type: none"> • washdown design • IO-Link • Remote Teach-in • IP 68/69K & proTect+
	FZDK 10 Diffuse sensors with intensity difference	10,4x27x14 mm, plastic	5 mm	200 mm		<ul style="list-style-type: none"> • compact housing • sensing distance adjustable via potentiometer • IP 67
	O300.ZL (Laser)	12,9x32,3x23 mm, plastic	10 mm	250 mm		<ul style="list-style-type: none"> • One inch class • laser diode












	Diffuse sensors with intensity difference				<ul style="list-style-type: none"> • short response time • very small beam diameter • IO-Link • qTeach • IP 67
	O300.ZR Diffuse sensors with intensity difference	12,9x32,3x23 mm, plastic	10 mm	400 mm	<ul style="list-style-type: none"> • One inch class • qTeach • IP 67
	FZDK 14 Diffuse sensors with intensity difference	14,8x43x31 mm, plastic	5 mm	600 mm	<ul style="list-style-type: none"> • long range • sensing distance adjustable via potentiometer • suppression of mutual optical interference • IP 67
	O500.ZR Diffuse sensors with intensity difference	18x45x32 mm, plastic	20 mm	600 mm	<ul style="list-style-type: none"> • qTeach • IP 67
	OR18.ZI Diffuse sensors with intensity difference	18x44,8 mm, plastic	0 mm	800 mm	<ul style="list-style-type: none"> • infrared LED • long range • sensing distance adjustable via potentiometer • suppression of mutual optical interference • IP 67
	OR18.ZL (Laser) Diffuse sensors with intensity difference	18x77 mm, metal	10 mm	300 mm	<ul style="list-style-type: none"> • short response time • sensing distance adjustable via potentiometer • suppression of mutual optical interference • IP 67
	OR18W.ZI Diffuse sensors with intensity difference	18x67,2 mm, metal	0 mm	800 mm	<ul style="list-style-type: none"> • washdown design • infrared LED • long range • sensing distance adjustable via potentiometer • suppression of mutual optical interference • IP 67/69K
	FKDK 14 Diffuse contrast sensors	14,8x43x31 mm, plastic	12,5 mm ±2 mm	12,5 mm ±2 mm	<ul style="list-style-type: none"> • very short response time • white light • IP 67
	FVDK 66 (standard version) Fiber optic sensors & cables	10x33,8x70,2 mm, plastic	-	340 mm	<ul style="list-style-type: none"> • 2x4 digit display indicates the switching point and receiving light level • easy operation • version with external teach-in • IP 40
	FVDK 67 (standard version) Fiber optic sensors & cables	10x33,8x70,2 mm, plastic	-	1200 mm	<ul style="list-style-type: none"> • 2x4 digit display indicates the switching point and receiving light level • versatile applicable due to 8 integrated operating modes • version with external teach-in and teach feedback • IP 40
	OHDK 10 (Laser) Diffuse sensors with background suppression	10,4x27x16,3 mm, plastic	22 mm	130 mm	<ul style="list-style-type: none"> • compact housing • high repeatability • sensing distance adjustable via potentiometer • IP 67












	OHDK 14 (Laser) Diffuse sensors with background suppression	14,8x43x31 mm, plastic	20 mm	350 mm	<ul style="list-style-type: none"> • short response time • high repeatability • sensing distance adjustable via potentiometer • IP 67
	OPDK 14 (Laser, standard version) Retro-reflective sensors	14,8x43x31 mm, plastic	-	10 m	<ul style="list-style-type: none"> • single lens optics • long sensing range • short response time • IP 67
	OPDM 12 (Laser) Retro-reflective sensors	12,4x35x35 mm, metal	-	7 m	<ul style="list-style-type: none"> • rugged miniature metal housing • single lens optics • short response time • IP 67
	FHDK 14 (teach-in) Diffuse sensors with background suppression	14,8x43x31 mm, plastic	40 mm	200 mm	<ul style="list-style-type: none"> • short response time • sensing distance adjustable via Teach-in • suppression of mutual optical interference • IP 67
	FHDK 07 Diffuse sensors with background suppression	8x16,2x10,8 mm, plastic	10 mm	60 mm	<ul style="list-style-type: none"> • ultra compact housing • sensing distance adjustable via Teach-in • suppression of mutual optical interference • IP 65
	FLDK 110 (Laser, Scatec-2 box) Copy counters	30 mm, plastic	0 mm	120 mm	<ul style="list-style-type: none"> • Laser copy counter / edge detector • Individual package detection with seamless product detection • Selectable output pulse length • IP 54
	FLDK 110 (Laser, Scatec-2) Copy counters	30 mm, plastic	0 mm	120 mm	<ul style="list-style-type: none"> • Smallest laser copy counter on the market • counting of up to 600'000 copies/hour • Sensitivity $\geq 0,2$ mm • Selectable output pulse length • IP 54
	FLDK 110 (Laser, Scatec-J) Copy counters	30 mm, plastic	0 mm	55 mm	<ul style="list-style-type: none"> • Smallest laser copy counter on the market • counting of up to 280'000 copies/hour • Sensitivity $\geq 1,5$ mm • IP 54
	FLDM 170 (Laser, Scatec-10) Copy counters	30 mm, metal	0 mm	90 mm	<ul style="list-style-type: none"> • up to 3 million copies/hour • Sensitivity $\geq 0,1$ mm • display and integrated counter • Selectable output pulse length • Integrated gap detection and Sync-input • IP 54
	FNDK 14 SmartReflect Light barriers	14,8x43x31 mm, plastic	-	800 mm on V4A	<ul style="list-style-type: none"> • short response time • sensing distance adjustable via Teach-in • IO-Link • IP 67
	O300.TL (Laser, Emitter) Through beam sensors	12,9x32,3x23 mm, plastic	-	40 m	<ul style="list-style-type: none"> • One inch class • laser diode • very small beam diameter • IP 67












	O300.EL (Laser, Receiver) Through beam sensors	12,9x32,3x23 mm, plastic	-	40 m	<ul style="list-style-type: none"> • One inch class • short response time • qTeach • IP 67
	O300.TR (Emitter) Through beam sensors	12,9x32,3x23 mm, plastic	-	10 m	<ul style="list-style-type: none"> • One inch class • small beam diameter • IP 67
	O300.ER (Receiver) Through beam sensors	12,9x32,3x23 mm, plastic	-	10 m	<ul style="list-style-type: none"> • One inch class • short response time • qTeach • IP 67
	O500.TR (Emitter) Through beam sensors	18x45x32 mm, plastic	-	25 m	<ul style="list-style-type: none"> • IP 67
	O500.ER (Receiver) Through beam sensors	18x45x32 mm, plastic	-	25 m	<ul style="list-style-type: none"> • qTeach • IP 67
	OR18.TI (Emitter) Through beam sensors	18x44,8 mm, plastic	-	13 m	<ul style="list-style-type: none"> • infrared LED • long range • transmission power adjustable via potentiometer • IP 67
	OR18.EI (Receiver) Through beam sensors	18x44,8 mm, plastic	-	13 m	<ul style="list-style-type: none"> • infrared LED • long range • sensitivity adjustable via potentiometer • IP 67
	OR18.TL (Laser, Emitter) Through beam sensors	18x67 mm, metal	-	55 m	<ul style="list-style-type: none"> • short response time • long range • IP 67
	OR18.EL (Laser, Receiver) Through beam sensors	18x77 mm, metal	-	55 m	<ul style="list-style-type: none"> • short response time • long range • sensitivity adjustable via potentiometer • IP 67
	O300H.TL (Laser, Emitter) Through beam sensors	16,5x34,6x28,7 mm, metal	-	40 m	<ul style="list-style-type: none"> • One inch class • hygiene design • laser diode • very small beam diameter • IP 68/69K & proTect+
	O300H.EL (Laser, Receiver) Through beam sensors	16,5x34,6x28,7 mm, metal	-	40 m	<ul style="list-style-type: none"> • One inch class • hygiene design • short response time • Teach-in • IP 68/69K & proTect+












	O300H.TR (Emitter) Through beam sensors	16,5x34,6x28,7 mm, metal	-	10 m	<ul style="list-style-type: none"> • One inch class • hygiene design • small beam diameter • IP 68/69K & proTect+
	O300H.ER (Receiver) Through beam sensors	16,5x34,6x28,7 mm, metal	-	10 m	<ul style="list-style-type: none"> • One inch class • hygiene design • short response time • Teach-in • IP 68/69K & proTect+
	O300W.TL (Laser, Emitter) Through beam sensors	16,5x34,7x28,2 mm, metal	-	40 m	<ul style="list-style-type: none"> • One inch class • washdown design • laser diode • very small beam diameter • IP 68/69K & proTect+
	O300W.EL (Laser, Receiver) Through beam sensors	16,5x34,7x28,2 mm, metal	-	40 m	<ul style="list-style-type: none"> • One inch class • washdown design • short response time • qTeach • IP 68/69K & proTect+
	O300W.TR (Emitter) Through beam sensors	16,5x34,7x28,2 mm, metal	-	10 m	<ul style="list-style-type: none"> • One inch class • washdown design • small beam diameter • IP 68/69K & proTect+
	O300W.ER (Receiver) Through beam sensors	16,5x34,7x28,2 mm, metal	-	10 m	<ul style="list-style-type: none"> • One inch class • washdown design • short response time • qTeach • IP 68/69K & proTect+
	O500H.TR (Emitter) Through beam sensors	20,2x47,7x36,4 mm, metal	-	25 m	<ul style="list-style-type: none"> • hygiene design • IP 68/69K & proTect+
	O500H.ER (Receiver) Through beam sensors	20,2x47,7x36,4 mm, metal	-	25 m	<ul style="list-style-type: none"> • hygiene design • Teach-in • IP 68/69K & proTect+
	O500W.TR (Emitter) Through beam sensors	20,2x47,2x37,7 mm, metal	-	25 m	<ul style="list-style-type: none"> • washdown design • IP 68/69K & proTect+
	O500W.ER (Receiver) Through beam sensors	20,2x47,2x37,7 mm, metal	-	25 m	<ul style="list-style-type: none"> • washdown design • qTeach • IP 68/69K & proTect+
	OR18W.TI (Emitter) Through beam sensors	18x67,2 mm, metal	-	13 m	<ul style="list-style-type: none"> • washdown design • infrared LED • long range • transmission power adjustable via potentiometer • IP 67/69K




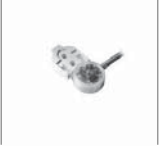




	(Receiver) Through beam sensors				<ul style="list-style-type: none"> • infrared LED • long range • sensitivity adjustable via potentiometer • IP 67/69K
	FSDK 14 (Emitter) Through beam sensors	14,8x43x31 mm, plastic	-	12 m	<ul style="list-style-type: none"> • economy line • IP 67
	FEDK 14 (Receiver) Through beam sensors	14,8x43x31 mm, plastic	-	12 m	<ul style="list-style-type: none"> • economy line • fix sensing distance • IP 67
	OSDK 14 (Laser, Emitter) Through beam sensors	14,8x43x31 mm, plastic	-	8 m	<ul style="list-style-type: none"> • economy line • IP 67
	OEDK 14 (Laser, Receiver) Through beam sensors	14,8x43x31 mm, plastic	-	8 m	<ul style="list-style-type: none"> • economy line • fix sensing distance • IP 67
	FSDK 10 (Emitter) Through beam sensors	10,4x27x14 mm, plastic	-	5 m	<ul style="list-style-type: none"> • compact housing • IP 67
	FEDK 10 (Receiver) Through beam sensors	10,4x27x14 mm, plastic	-	5 m	<ul style="list-style-type: none"> • compact housing • sensing range adjustable via potentiometer • IP 67
	OSDK 10 (Laser, Emitter) Through beam sensors	10,4x27x16,3 mm, plastic	-	8 m	<ul style="list-style-type: none"> • laser sensor in miniature housing • high repeatability • IP 67
	OEDK 10 (Laser, Receiver) Through beam sensors	10,4x27x14 mm, plastic	-	8 m	<ul style="list-style-type: none"> • laser sensor in sub miniature housing • high repeatability • IP 67
	FSDM 16 (Emitter) Through beam sensors	15,4x50x50 mm, metal	-	8 m	<ul style="list-style-type: none"> • rugged metal housing • IP 67












	FEDM 16 (Receiver)	15,4x50x50 mm, metal	-	8 m	<ul style="list-style-type: none"> • rugged metal housing • fix sensing distance • IP 67
	FSCK 07 (Emitter) Through beam sensors	8x16,2x10,8 mm, plastic	-	2 m	<ul style="list-style-type: none"> • ultra compact housing • IP 65
	FECK 07 (Receiver) Through beam sensors	8x16,2x10,8 mm, plastic	-	2 m	<ul style="list-style-type: none"> • ultra compact housing • sensing range adjustable via Teach-in • IP 65
	FSDK 07 (Emitter) Through beam sensors	8x16,2x10,8 mm, plastic	-	2 m	<ul style="list-style-type: none"> • ultra compact housing • IP 65
	FEDK 07 (Receiver) Through beam sensors	8x16,2x10,8 mm, plastic	-	2 m	<ul style="list-style-type: none"> • ultra compact housing • sensing range adjustable via Teach-in • IP 65
	FSDM 12 (Emitter) Through beam sensors	12,4x35x35 mm, metal	-	6 m	<ul style="list-style-type: none"> • rugged miniature metal housing • IP 67
	FEDM 12 (Receiver) Through beam sensors	12,4x35x35 mm, metal	-	6 m	<ul style="list-style-type: none"> • rugged miniature metal housing • fix sensing distance • IP 67
	FSAM 08 (Emitter) Through beam sensors	8x59 mm, metal	-	2,5 m	<ul style="list-style-type: none"> • subminiature metal housing • IP 65
	FEAM 08 (Receiver) Through beam sensors	8x59 mm, metal	-	2,5 m	<ul style="list-style-type: none"> • rugged subminiature metal housing • fix sensing distance • IP 65
	FSAM 18 (Emitter) Through beam sensors	18x57 mm, metal	-	16 m	<ul style="list-style-type: none"> • test input • IP 67
	FEAM 18 (Receiver) Through beam sensors	18x57 mm, metal	-	16 m	<ul style="list-style-type: none"> • sensing range adjustable via potentiometer • IP 67












	FSDM 08 (Emitter) Through beam sensors	8x58x12 mm, metal	-	2,5 m	<ul style="list-style-type: none"> • rectangular miniature housing with side sensing optics • IP 65
	FEDM 08 (Receiver) Through beam sensors	8x58x12 mm, metal	-	2,5 m	<ul style="list-style-type: none"> • rugged subminiature metal housing with side sensing optics • fix sensing distance • IP 65
	FCE xCD 1 Fiber optics	3x12 mm, metal	1 mm	400 mm	<ul style="list-style-type: none"> • with thread
	FCE xEF 1 Fiber optics	6x18 mm, metal	1 mm	46 mm	<ul style="list-style-type: none"> • with thread
	FFAK 16 Liquid level and leakage sensors	30x81 mm, plastic	-	-	<ul style="list-style-type: none"> • with thread M16x1 • chemical resistance • up to 10 bar nominal pressure • IP 67
	FFAK 17 (mechanically adjustable, axial) Liquid level and leakage sensors	30x81,5 mm, plastic	-	-	<ul style="list-style-type: none"> • sensitivity adjustable • chemical resistance • up to 10 bar nominal pressure • IP 67
	FFAK 17 (standard version) Liquid level and leakage sensors	30x81 mm, plastic	-	-	<ul style="list-style-type: none"> • chemical resistance • up to 10 bar nominal pressure • IP 67
	FFAM 16 Liquid level and leakage sensors	30x66,5 mm, metal	-	-	<ul style="list-style-type: none"> • with thread M16x1 • rugged metal housing • up to 40 bar nominal pressure • IP 67
	FFAM 17 Liquid level and leakage sensors	30x66,5 mm, metal	-	-	<ul style="list-style-type: none"> • rugged metal housing • chemical resistance • up to 40 bar nominal pressure • IP 67
	FFDK 16 Liquid level and leakage sensors	16x28x26 mm, plastic	-	-	<ul style="list-style-type: none"> • liquid level sensor for pipe mounting • pipe diameter from 3 ... 13 mm • easy setup - no adjustment necessary • IP 50
	FGLM Fork and angle sensors	75x75x10 mm, metal	-	158 mm	<ul style="list-style-type: none"> • fork opening from 60-158 mm • optical axis approachable in x-, y- and z-direction • smallest detectable object 0,5 mm • IP 67
	FGUM	50x60x10 mm,	-	80 mm	<ul style="list-style-type: none"> • fork opening from 30-80 mm

	(Teach-in) Fork and angle sensors	metal			<ul style="list-style-type: none"> • smallest detectable object 0,3 mm • Teach-in • IP 67
	FGUM Fork and angle sensors	40x50x10 mm, metal	-	120 mm	<ul style="list-style-type: none"> • fork opening from 20-120 mm • smallest detectable object 0,5 mm • ambient light immunity up to 140 kLux • IP 67
	FHDK 10 (for glass detection) Diffuse sensors with background suppression	10,4x27x14 mm, plastic	10 mm	30 mm	<ul style="list-style-type: none"> • compact housing • optimized for glass detection • sensing distance adjustable via potentiometer • IP 67
	FHDK 10 (line beam) Diffuse sensors with background suppression	10,4x27x14 mm, plastic	20 mm	80 mm	<ul style="list-style-type: none"> • compact housing • with line beam • sensing distance adjustable via potentiometer • IP 67
	FHDK 10 (Tw adjustable, point source LED) Diffuse sensors with background suppression	10,4x27x14 mm, plastic	25 mm	120 mm	<ul style="list-style-type: none"> • compact housing • small beam diameter • sensing distance adjustable via potentiometer • IP 67
	FHDK 10 (Tw fixed) Diffuse sensors with background suppression	10,4x27x14,7 mm, plastic	30 mm ±2 mm	80 mm ±8 mm	<ul style="list-style-type: none"> • compact housing • fixed sensing distance • push-pull output • IP 67
	FHDK 20 Diffuse sensors with background suppression	20x42x15 mm, plastic	30 mm	200 mm	<ul style="list-style-type: none"> • cross-technology housing concept • sensing distance adjustable via Teach-in • small mounting depth • IP 67
	FHDM 16 Diffuse sensors with background suppression	15,4x50x50 mm, metal	20 mm	600 mm	<ul style="list-style-type: none"> • rugged metal housing • sensing distance adjustable via potentiometer • suppression of mutual optical interference • IP 67
	FKDH 14 Diffuse contrast sensors	19,6x52,2x34,3 mm, metal	12,5 mm ±2 mm	12,5 mm ±2 mm	<ul style="list-style-type: none"> • hygiene design • very short response time • White light • IP 68/69K & proTect+
	FKDM 22 (large light spot, 2 channels) Color sensors	22,9 mm, metal	40 mm	40 mm	<ul style="list-style-type: none"> • up to 2 colors can be distinguished properly • spot size 3 x 5 mm • rugged metal housing • IP 67
	FKDM 22 (large light spot, 4 channels) Color sensors	22,9 mm, metal	40 mm	40 mm	<ul style="list-style-type: none"> • up to 4 colors can be distinguished properly • spot size 3 x 5 mm • rugged metal housing • IP 67
	FKDM 22	22,9 mm, metal	25 mm	25 mm	<ul style="list-style-type: none"> • up to 4 colors can be distinguished












	Color sensors				<ul style="list-style-type: none"> • spot size 0,7 x 1,3 mm • rugged metal housing • IP 67
	FKDR 14 Diffuse contrast sensors	19,6x51x34,3 mm, metal	12,5 mm ±2 mm	12,5 mm ±2 mm	<ul style="list-style-type: none"> • hygiene design • very short response time • White light • IP 68/69K & proTect+
	FKE xCD 1 Fiber optics	5x31,2 mm, metal	1 mm	70 mm	<ul style="list-style-type: none"> • with thread
	FLC xCD 2 Fiber optics	5x14,7 mm, metal	-	4500 mm	<ul style="list-style-type: none"> • Chemical and oil proof • Smooth sensing head
	FLDM 170 (Laser, Scatec-15) Copy counters	30 mm, metal	0 mm	120 mm	<ul style="list-style-type: none"> • up to 3 million copies/hour • Sensitivity ≥ 0,15 mm • display and integrated counter • Selectable output pulse length • Integrated gap detection and Sync-input • IP 54
	FLDM 180 (Laser, Edge) Copy counters	31 mm, metal	30 mm	100 mm	<ul style="list-style-type: none"> • Für Neuprojekte empfehlen wir SCATEC Produkte
	FLDM 180 (Laser, Micro) Copy counters	31 mm, metal	30 mm	100 mm	<ul style="list-style-type: none"> • Für Neuprojekte empfehlen wir SCATEC Produkte
	FLDM 180 (LED, gripper) Copy counters	31 mm, metal	30 mm	50 mm	-
	FLE xCD 1 Fiber optics	4x15 mm, metal	1 mm	530 mm	<ul style="list-style-type: none"> • with thread
	FNCK 07 SmartReflect Light barriers	8x16,2x10,8 mm, plastic	-	45 mm	<ul style="list-style-type: none"> • ultra compact housing with cable rear side • sensing distance adjustable via Teach-in • suppression of mutual optical interference • IP 65
	FNDH 14 SmartReflect Light barriers	19,6x52,2x34,3 mm, metal	-	800 mm on V4A	<ul style="list-style-type: none"> • hygiene design • IO-Link • remote Teach-in • IP 68/69K & proTect+












	FNDK 07 SmartReflect Light barriers	8x16,2x10,8 mm, plastic	-	45 mm	<ul style="list-style-type: none"> • ultra compact housing with cable bottom side • sensing distance adjustable via Teach-in • suppression of mutual optical interference • IP 65
	FNDK 14 SmartReflect Light barriers	14,8x43x31 mm, plastic	-	200 mm	<ul style="list-style-type: none"> • short response time • sensing distance adjustable via Teach-in • IP 67
	FOC xCD 6 Fiber optics	13x30,9x9,9 mm, plastic	-	-	<ul style="list-style-type: none"> • leakage monitoring
	FODK 23 Liquid level and leakage sensors	23x10,5x37,2 mm, plastic	-	-	<ul style="list-style-type: none"> • leakage sensor with integrated electronics • detects liquid amounts of approx. 1 ml • chemical resistance thanks to PFA sheath • IP 67
	FPAM 18 Retro-reflective sensors	18x57 mm, metal	-	3,2 m	<ul style="list-style-type: none"> • rugged metal housing • polarization filter to detect shiny objects • IP 67
	FPCK 07 Retro-reflective sensors	8x17,8x12,6 mm, plastic	-	0,6 m	<ul style="list-style-type: none"> • ultra compact housing • sensing range adjustable via Teach-in • suppression of mutual optical interference • IP 65
	FPDH 14 Retro-reflective sensors	19,6x52,2x34,3 mm, metal	-	3 m	<ul style="list-style-type: none"> • hygiene design • EHEDG certified • IP 68/69K & proTect+
	FPDK 07 Retro-reflective sensors	8x17,8x12,6 mm, plastic	-	0,6 m	<ul style="list-style-type: none"> • ultra compact housing • sensing range adjustable via Teach-in • suppression of mutual optical interference • IP 65
	FPDK 20 Retro-reflective sensors	20x42x15 mm, plastic	-	5,5 m	<ul style="list-style-type: none"> • cross-technology housing concept • polarization filter to detect shiny objects • small mounting depth • IP 67
	FPDM 12 Retro-reflective sensors	12,4x35x35 mm, metal	-	5 m	<ul style="list-style-type: none"> • rugged miniature metal housing • polarization filter to detect shiny objects • available with alarm output • IP 67
	FPDM 16 (for transparent objects) Retro-reflective sensors	15,4x50x50 mm, metal	-	6 m	<ul style="list-style-type: none"> • rugged metal housing • designed for detection of transparent objects • sensitivity adjustable via Teach-in • IP 67












	FPDM 16 (standard version) Retro-reflective sensors	15,4x50x50 mm, metal	-	7,3 m	<ul style="list-style-type: none"> • rugged metal housing • sensing range adjustable via potentiometer • polarization filter to detect shiny objects • IP 67
	FPDR 14 Retro-reflective sensors	19,6x51x34,3 mm, metal	-	3 m	<ul style="list-style-type: none"> • washdown design • Ecolab approved • IP 68/69K & proTect+
	FPE xCD 1 Fiber optics	4x28 mm, metal	-	4140 mm	<ul style="list-style-type: none"> • with thread
	FPE xCD 4 Fiber optics	4x30 mm, metal	-	4500 mm	<ul style="list-style-type: none"> • Smooth sensing head • side view
	FSA xCD 1 Fiber optics	4x14 mm, metal	-	690 mm	<ul style="list-style-type: none"> • Heat resistant • with thread
	FSB xCD 1 Fiber optics	4x17 mm, metal	-	1200 mm	<ul style="list-style-type: none"> • Heat and cold resistant • with thread
	FSC xCD 4 Fiber optics	4,7x15,8 mm, metal	-	1030 mm	<ul style="list-style-type: none"> • Chemical and oil proof • Smooth sensing head • side view
	FSE xCD 1 Fiber optics	3x11 mm, metal	-	1200 mm	<ul style="list-style-type: none"> • with thread
	FSE xCD 2 Fiber optics	3x15 mm, metal	-	1200 mm	<ul style="list-style-type: none"> • Smooth sensing head
	FSE xCD 4 Fiber optics	4x22 mm, metal	-	750 mm	<ul style="list-style-type: none"> • with thread • Smooth sensing head • side view
	FSE xCD 6 Fiber optics	20x25x3 mm, metal	-	790 mm	<ul style="list-style-type: none"> • Array • Line length = Number of holes x hole spacing







	FSE xEF 1 Fiber optics	3x11 mm, metal	-	900 mm	• with thread
	FSE xEF 4 Fiber optics	2,5x27 mm, metal	-	52 mm	• Smooth sensing head • side view
	FSE xEF 6 Fiber optics	12x8x3 mm, plastic	-	140 mm	-
	FSL xCD 6 Fiber optics	32x28x23,4 mm, plastic	-	13 mm	• Fill level detection • pipe mounting • pipe diameter from 3 ... 13 mm
	FUAXCD 1 Fiber optics	6x20 mm, metal	1 mm	200 mm	• Heat resistant • with thread
	FUB xCD 1 Fiber optics	6x17 mm, metal	1 mm	400 mm	• Heat and cold resistant • with thread
	FUC xCD 2 Fiber optics	6x16 mm, metal	1 mm	170 mm	• Chemically resistant • Smooth sensing head
	FUE xCD 1 Fiber optics	3x11 mm, metal	1 mm	300 mm	• with thread
	FUE xCD 2 Fiber optics	3x15 mm, metal	1 mm	300 mm	• Smooth sensing head
	FUE xCD 4 Fiber optics	3x55 mm, metal	1 mm	40 mm	• Smooth sensing head • side view
	FUE xCD 6 Fiber optics	20,6x20,6x5 mm, metal	1 mm	265 mm	• Array • Line length = Number of holes x hole spacing










	FUE xEF 1 Fiber optics	3x10 mm, metal	1 mm	210 mm	<ul style="list-style-type: none"> • with thread
	FUG xCD 1 Fiber optics	6x25 mm, metal	1 mm	160 mm	<ul style="list-style-type: none"> • Heat and cold resistant • with thread • Glass fibers
	FUL xCD 2 Fiber optics	4x15 mm, plastic	-	-	<ul style="list-style-type: none"> • Fill level detection • Smooth sensing head
	FVDK 10 Fiber optic sensors & cables	10,4x27x14 mm, plastic	-	160 mm	<ul style="list-style-type: none"> • sensitivity adjustable via potentiometer • suppression of mutual optical interference • IP 40
	FVDK 12 (fast version) Fiber optic sensors & cables	12x33,2x60 mm, plastic	-	140 mm	<ul style="list-style-type: none"> • short response time 50 µs • fast version < 0,05 ms • integrated alarm output • timer function • IP 65
	FVDK 12 Fiber optic sensors & cables	12x33,2x60 mm, plastic	-	320 mm	<ul style="list-style-type: none"> • sensitivity adjustable via Teach-in • integrated alarm output • protection class IP 65 • timer function • IP 65
	FVDK 22 Fiber optic sensors & cables	22x33,2x60 mm, plastic	-	320 mm	<ul style="list-style-type: none"> • 2 sensors in one housing • sensitivity adjustable via Teach-in • optional logical output operation • IP 65
	FVDK 66 (master/slave) Fiber optic sensors & cables	10x33,8x70,2 mm, plastic	-	340 mm	<ul style="list-style-type: none"> • master/slave system with up to 15 extension units • 2x4 digit display • IP 40
	FVDK 67 (2 adjustable outputs) Fiber optic sensors & cables	10x33,8x70,2 mm, plastic	-	1200 mm	<ul style="list-style-type: none"> • 2 independently adjustable outputs • suppression of mutual optical interference • 2x4 digit display • IP 40
	FVDK 67 (master/slave) Fiber optic sensors & cables	10x33,8x70,2 mm, plastic	-	1200 mm	<ul style="list-style-type: none"> • master/slave system with up to 16 extension units • integrated dynamic auto-teach-in function • 2x4 digit display • IP 40
	FVDK 80 Fiber optic sensors & cables	10x29,7x60 mm, plastic	-	440 mm	<ul style="list-style-type: none"> • sensitivity adjustable via potentiometer • fast and high sensitivity version available • integrated alarm output • IP 40
	FVDM 15	15x60x45 mm,	240 mm	1200 mm	<ul style="list-style-type: none"> • sensitivity adjustable via potentiometer











	Fiber optic sensors & cables	metal			<ul style="list-style-type: none"> • fast version available • rugged metal housing • IP 65
	FWE xCD 1 Fiber optics	3x14 mm, metal	-	2175 mm	<ul style="list-style-type: none"> • with thread
	FWE xCD 2 Fiber optics	3x15 mm, metal	-	2350 mm	<ul style="list-style-type: none"> • Smooth sensing head
	FZAM 08 Diffuse sensors with intensity difference	8x56 mm, metal	40 mm	80 mm	<ul style="list-style-type: none"> • subminiature metal housing • fixed sensing distance • IP 65
	FZAM 12 Diffuse sensors with intensity difference	12x70 mm, metal	30 mm	200 mm	<ul style="list-style-type: none"> • rugged metal housing • sensing distance adjustable via potentiometer • suppression of mutual optical interference • IP 65
	FZAM 18 (mechanically adjustable, axial) Diffuse sensors with intensity difference	18x50 mm, metal	20 mm	150 mm	<ul style="list-style-type: none"> • rugged metal housing • sensing distance adjustable with potentiometer (axial) • extended sensing distance with lens • IP 65
	FZAM 18 (mechanically adjustable, axial) Fiber optic sensors & cables	18x50 mm, metal	60 mm	310 mm	<ul style="list-style-type: none"> • sensitivity adjustable via potentiometer (axial) • rugged metal housing • infrared light source • IP 65
	FZAM 18 (mechanically adjustable, lateral) Diffuse sensors with intensity difference	18x50 mm, metal	60 mm	430 mm	<ul style="list-style-type: none"> • rugged metal housing • sensing distance adjustable with radially mounted potentiometer • extended sensing distance with lens • IP 67
	FZAM 18 (mechanically adjustable, lateral) Fiber optic sensors & cables	18x50 mm, metal	150 mm	800 mm	<ul style="list-style-type: none"> • sensitivity adjustable via potentiometer (radial) • rugged metal housing • infrared light source • IP 67
	FZAM 18 (teach-in) Diffuse sensors with intensity difference	18x50 mm, metal	60 mm	430 mm	<ul style="list-style-type: none"> • with alarm output • sensing distance adjustable via Teach-in • extended sensing distance with lens • IP 67
	FZAM 18 (teach-in) Fiber optic sensors & cables	18x50 mm, metal	150 mm	800 mm	<ul style="list-style-type: none"> • sensitivity adjustable via Teach-in • light / dark operation programmable • rugged metal housing • IP 67












	FZAM 30 Diffuse sensors with intensity difference	30x66 mm, metal	100 mm	1500 mm	<ul style="list-style-type: none"> • rugged metal housing • long sensing range • IP 65
	FZAM 30 Fiber optic sensors & cables	30x66 mm, metal	110 mm	1400 mm	<ul style="list-style-type: none"> • extended sensing distance • fast version available • rugged metal housing • IP 65
	FZCK 07 Diffuse sensors with intensity difference	8x16,2x10,8 mm, plastic	20 mm	150 mm	<ul style="list-style-type: none"> • ultra compact housing • sensitivity adjustable via Teach-in • suppression of mutual optical interference • IP 65
	FZDK 07 Diffuse sensors with intensity difference	8x16,2x10,8 mm, plastic	20 mm	150 mm	<ul style="list-style-type: none"> • ultra compact housing • sensitivity adjustable via Teach-in • suppression of mutual optical interference • IP 65
	FZDK 20 Diffuse sensors with intensity difference	20x42x15 mm, plastic	5 mm	500 mm	<ul style="list-style-type: none"> • cross-technology housing concept • sensing distance adjustable via potentiometer • small mounting depth • IP 67
	FZDM 08 Diffuse sensors with intensity difference	8x58x12 mm, metal	40 mm	80 mm	<ul style="list-style-type: none"> • subminiature metal housing • fixed sensing distance • IP 65
	FZDM 16 Diffuse sensors with intensity difference	15,4x50x50 mm, metal	0 mm	400 mm	<ul style="list-style-type: none"> • rugged metal housing • sensing distance adjustable via potentiometer • IP 67
	O300.GI Diffuse sensors with background suppression	12,9x32,3x23 mm, plastic	30 mm	300 mm	<ul style="list-style-type: none"> • One inch class • infrared LED • short response time • qTeach • IP 67
	O300.GR Diffuse sensors with background suppression	12,9x32,3x23 mm, plastic	30 mm	300 mm	<ul style="list-style-type: none"> • One inch class • qTeach • IP 67
	O300.RR Retro-reflective sensors	12,9x32,3x23 mm, plastic	-	4 m	<ul style="list-style-type: none"> • One inch class • polarization filter to detect shiny objects • IP 67
	O500.GI Diffuse sensors with background suppression	18x45x32 mm, plastic	60 mm	550 mm	<ul style="list-style-type: none"> • infrared LED • short response time • qTeach • IP 67
	O500.GR	18x45x32 mm, plastic	60 mm	550 mm	<ul style="list-style-type: none"> • qTeach • IP 67












	Diffuse sensors with background suppression				
	O500.RR Retro-reflective sensors	18x45x32 mm, plastic	-	7,5 m	<ul style="list-style-type: none"> polarization filter to detect shiny objects IP 67
	OBDM 12 (2-point comparison) Difference sensors	12,4x37x34,5 mm, metal	16 mm	120 mm	<ul style="list-style-type: none"> comparison of two distances max. tolerance adjustable specific measuring moment selectable IP 67
	OBDM 12 (min./max. analysis) Difference sensors	12,4x37x34,5 mm, metal	16 mm	120 mm	<ul style="list-style-type: none"> analysis of distance differences (min./max.) max. difference tolerance adjustable measuring time selectable IP 67
	OBDM 12 (step analysis) Difference sensors	12,4x37x34,5 mm, metal	16 mm	120 mm	<ul style="list-style-type: none"> detection of edges reference steps adjustable min. output pulse 10 ms IP 67
	OBDM 12 (tolerance analysis) Difference sensors	12,4x37x34,5 mm, metal	16 mm	120 mm	<ul style="list-style-type: none"> distance monitoring within a tolerance band nominal distance adjustable tolerance band IP 67
	OBDM 12 (window analysis) Difference sensors	12,4x37x34,5 mm, metal	16 mm	120 mm	<ul style="list-style-type: none"> range switch (foreground / background suppression) adjustable window IP 67
	OGUM (Laser) Fork and angle sensors	60x60x10 mm, metal	-	120 mm	<ul style="list-style-type: none"> fork opening from 30-120 mm smallest detectable object 0,05 mm high repeatability of 0.01 mm IP 67
	OGUM (Laser, basic) Fork and angle sensors	50x60x10 mm, metal	-	120 mm	<ul style="list-style-type: none"> fork opening from 30-120 mm smallest detectable object 0,1 mm repeatability of 0,02 mm IP 67
	OHDK 10 (Laser line beam) Diffuse sensors with background suppression	10,4x27x16,3 mm, plastic	22 mm	130 mm	<ul style="list-style-type: none"> compact housing line beam sensing distance adjustable via potentiometer IP 67
	OHDK 25 (Laser, 1 m) Diffuse sensors with background suppression	23,4x63x45 mm, plastic	100 mm	900 mm	<ul style="list-style-type: none"> qTeach no black/white difference IP 67












	OHDK 25 (Laser, 2 m) Diffuse sensors with background suppression	23,4x63x45 mm, plastic	100 mm	1750 mm	<ul style="list-style-type: none"> • qTeach • no black/white difference • 1 or 2 switching outputs • IP 67
	OHDM 12 (Laser) Diffuse sensors with background suppression	12,4x37x34,5 mm, metal	17 mm	120 mm	<ul style="list-style-type: none"> • rugged miniature metal housing • negligible black/white difference • teachable sensing distance • IP 67
	OHDM 13 (Laser) Diffuse sensors with background suppression	13,4x48,2x40 mm, metal	50 mm	550 mm	<ul style="list-style-type: none"> • rugged metal housing • negligible black/white difference • teachable sensing distance • IP 67
	OHDM 16 (Laser) Diffuse sensors with background suppression	15,4x50x50 mm, metal	25 mm	300 mm	<ul style="list-style-type: none"> • rugged metal housing • long range • high repeatability • IP 67
	OHDM 16 (Laser, wafer mapping sensor) Diffuse sensors with background suppression	15,4x50x50 mm, metal	123 mm	143 mm	<ul style="list-style-type: none"> • for lateral detection of wafer edges • very long range • laser sensor in rugged metal housing • IP 67
	OHDM 20 (Laser) Diffuse sensors with background suppression	20,6x65x50 mm, metal	210 mm	1500 mm	<ul style="list-style-type: none"> • long range • negligible black/white difference • two teachable sensing distances • IP 67
	ONDK 25 (Laser) SmartReflect Light barriers	23,4x63x45 mm, plastic	-	1900 mm	<ul style="list-style-type: none"> • long sensing range • qTeach • IP 67
	OPDK 14 (Laser, for transparent Objects) Retro-reflective sensors	14,8x43x31 mm, plastic	-	4,5 m	<ul style="list-style-type: none"> • designed for detection of transparent objects • single lens optics • short response time • IP 67
	OPDM 16 (Laser) Retro-reflective sensors	15,4x50x50 mm, metal	-	11 m	<ul style="list-style-type: none"> • rugged metal housing • high repeatability • short response time • IP 67
	OZDK 10 (Laser line beam) Diffuse contrast sensors	10,4x27x16,3 mm, plastic	3 mm	150 mm	<ul style="list-style-type: none"> • compact housing • high repeatability • very short response time • IP 67
	OZDK 10 (Laser line beam) Diffuse sensors with intensity difference	10,4x27x16,3 mm, plastic	3 mm	150 mm	<ul style="list-style-type: none"> • compact housing • line beam • very short response time • IP 67







	OZDK 10 (Laser) Diffuse contrast sensors	10,4x27x16,3 mm, plastic	3 mm	150 mm	<ul style="list-style-type: none"> • compact housing • high repeatability • very short response time • IP 67
	OZDK 10 (Laser) Diffuse sensors with intensity difference	10,4x27x16,3 mm, plastic	3 mm	150 mm	<ul style="list-style-type: none"> • compact housing • high repeatability • very short response time • IP 67
	OZDK 14 (Laser) Diffuse contrast sensors	14,8x43x31 mm, plastic	20 mm	300 mm	<ul style="list-style-type: none"> • very short response time • high repeatability • sensing distance adjustable via Teach-in • IP 67
	OZDK 14 (Laser) Diffuse sensors with intensity difference	14,8x43x31 mm, plastic	20 mm	300 mm	<ul style="list-style-type: none"> • very short response time • high repeatability • sensing distance adjustable via Teach-in • IP 67
	OZDM 16 (Laser, analog output) Diffuse contrast sensors	15,4x50x50 mm, metal	0 mm	250 mm	<ul style="list-style-type: none"> • with analog output • high repeatability • very short response time • IP 67
	OZDM 16 (Laser, analog output) Diffuse sensors with intensity difference	15,4x50x50 mm, metal	0 mm	250 mm	<ul style="list-style-type: none"> • with analog output • high repeatability • very short response time • IP 67
	OZDM 16 (Laser, switching output) Diffuse contrast sensors	15,4x50x50 mm, metal	0 mm	250 mm	<ul style="list-style-type: none"> • rugged metal housing • high repeatability • very short response time • IP 67
	OZDM 16 (Laser, switching output) Diffuse sensors with intensity difference	15,4x50x50 mm, metal	0 mm	250 mm	<ul style="list-style-type: none"> • rugged metal housing • high repeatability • very short response time • IP 67
	ZADM 034 (ParCon, switching output) Edge sensors	34 mm, metal	0 mm	40 mm	<ul style="list-style-type: none"> • detection of small objects • measuring area 24 x 40 mm • high measuring frequency • IP 67











sample picture	product family	housing	sensing distance min.	sensing distance max.	features
	U500.PA0 Ultrasonic proximity sensors	18x45x32 mm, plastic	100 mm	1000 mm	<ul style="list-style-type: none"> • narrow sonic beam • short response time • qTeach • IP 67
	UR18.PA0 Ultrasonic proximity sensors	18x64 mm, metal	100 mm	1000 mm	<ul style="list-style-type: none"> • narrow sonic beam • short response time • qTeach • IP 67
	U500.RA0 Ultrasonic retro-reflective sensors	18x45x32 mm, plastic	0 mm	1000 mm	<ul style="list-style-type: none"> • narrow sonic beam • short response time • no blind spot area for objects > 30 mm • qTeach • IP 67
	UR18.RA0 Ultrasonic retro-reflective sensors	18x64 mm, metal	0 mm	1000 mm	<ul style="list-style-type: none"> • narrow sonic beam • short response time • no blind spot area for objects > 30 mm • qTeach • IP 67
	UNAM 18 (with Teach-in) Ultrasonic proximity sensors	18x90 mm, metal	100 mm	1000 mm	<ul style="list-style-type: none"> • IP 67
	UNDK 20 (Sd = 1000 mm) Ultrasonic proximity sensors	20x42x15 mm, plastic	100 mm	1000 mm	<ul style="list-style-type: none"> • IP 67
	UNDK 10 (Sd = 200 mm) Ultrasonic proximity sensors	10,4x27x14 mm, plastic	10 mm	200 mm	<ul style="list-style-type: none"> • SONUS • IP 67
	UNDK 09 (with beam columnator) Ultrasonic proximity sensors	8,6x48,8x57,7 mm, plastic	3 mm	150 mm	<ul style="list-style-type: none"> • Teach-in input • IP 67
	UNAM 12 (with beam columnator, Highspeed) Ultrasonic proximity sensors	12x100 mm, metal	0 mm	40 mm	<ul style="list-style-type: none"> • Response time < 1,3 ms • IP 67
	UNAM 12 (Sde = 400 mm) Ultrasonic proximity sensors	12x70 mm, metal	40 mm	400 mm	<ul style="list-style-type: none"> • Teach-in input • IP 67





	UZDK 30 (Sd = 2000 mm) Ultrasonic proximity sensors	30x65x31 mm, metal	200 mm	2000 mm	<ul style="list-style-type: none"> • 2 outputs, each with one independent switching point • IP 67
	UNAM 30 Ultrasonic proximity sensors	30x70 mm, metal	200 mm	1500 mm	<ul style="list-style-type: none"> • IP 67
	UZAM 50 Ultrasonic proximity sensors	30x95 mm, metal	350 mm	2500 mm	<ul style="list-style-type: none"> • 2 outputs, each with one independent switching point • IP 67
	URDK 20 (Sde = 1000 mm) Ultrasonic retro-reflective sensors	20x42x15 mm, plastic	0 mm	1000 mm	<ul style="list-style-type: none"> • detects sound absorbing objects • no blind spot area for objects > 30 mm • IP 67
	URAR 18 Ultrasonic retro-reflective sensors	18x91,5 mm, metal	0 mm	400 mm	<ul style="list-style-type: none"> • Internal and external Teach-in • chemically resistant • IP 67
	URDK 10 (Sde = 200 mm) Ultrasonic retro-reflective sensors	10,4x27x14 mm, plastic	0 mm	200 mm	<ul style="list-style-type: none"> • SONUS • detects sound absorbing objects • no blind spot area for objects > 30 mm • IP 67
	URDK 09 Ultrasonic retro-reflective sensors	8,6x48,8x30,5 mm, plastic	0 mm	200 mm	<ul style="list-style-type: none"> • detects sound absorbing objects • no blind spot area for objects > 30 mm • push-pull • IP 67
	URAM 12 (with beam columnator, Highspeed) Ultrasonic retro-reflective sensors	12x100 mm, metal	0 mm	40 mm	<ul style="list-style-type: none"> • detects sound absorbing objects • no blind spot area • IP 67
	URDK 30 (Sde = 1000 mm) Ultrasonic retro-reflective sensors	30x65x31 mm, metal	0 mm	1000 mm	<ul style="list-style-type: none"> • detects sound absorbing objects • no blind spot area for objects > 30 mm • IP 67
	URAM 50 Ultrasonic retro-reflective sensors	30x95 mm, metal	0 mm	3000 mm	<ul style="list-style-type: none"> • detects sound absorbing objects • no blind spot area for objects > 100 mm • IP 67
	UEDK 20 (Receiver) Ultrasonic through beam sensors	20x42x15 mm, plastic	0 mm	1000 mm	<ul style="list-style-type: none"> • receiver with teach-in & LED display • response time adjustable • IP 67












	USDK 20 (Emitter) Ultrasonic through beam sensors	20x42x15 mm, plastic	0 mm	1000 mm	• IP 67
	UNDK 20 (Sd = 200 mm) Ultrasonic proximity sensors	20x42x15 mm, plastic	10 mm	200 mm	• IP 67
	UNAM 12 (Sde = 200 mm) Ultrasonic proximity sensors	12x70 mm, metal	10 mm	200 mm	• Teach-in input • IP 67
	UNDK 09 Ultrasonic proximity sensors	8,6x48,8x30,5 mm, plastic	30 mm	200 mm	• Teach-in input • IP 67
	UNDK 30 (Sd = 1000 mm) Ultrasonic proximity sensors	30x65x31 mm, metal	100 mm	1000 mm	• temperature compensation • IP 67
	UZDK 30 (Sd = 1000 mm) Ultrasonic proximity sensors	30x65x31 mm, metal	100 mm	1000 mm	• 2 outputs, each with one independent switching point • IP 67
	UNAM 50 Ultrasonic proximity sensors	30x95 mm, metal	350 mm	2500 mm	• IP 67
	URDK 20 (Sde = 200 mm) Ultrasonic retro-reflective sensors	20x42x15 mm, plastic	0 mm	200 mm	• detects sound absorbing objects • no blind spot area for objects > 30 mm • IP 67
	URDK 20 (Sde = 400 mm) Ultrasonic retro-reflective sensors	20x42x15 mm, plastic	0 mm	400 mm	• detects sound absorbing objects • no blind spot area for objects > 30 mm • IP 67
	JEDK 30 (Receiver) Ultrasonic through beam sensors	30x65x18,5 mm, metal	0 mm	700 mm	• response time ≤ 5 ms • IP 67
	UNAM 12 (Sde = 70 mm, Highspeed) Ultrasonic proximity sensors	12x70 mm, metal	10 mm	70 mm	• Teach-in input • Response time < 1,3 ms • IP 67

	UNAM 12 Ultrasonic proximity sensors	12x100 mm, metal	5 mm	70 mm	• IP 67
	UNAM 18 (without Teach-in) Ultrasonic proximity sensors	18x89 mm, metal	100 mm	700 mm	• IP 67
	UNAR 18 (Sde = 1000 mm) Ultrasonic proximity sensors	18x91,5 mm, metal	100 mm	1000 mm	• Internal and external Teach-in • chemically resistant • IP 67
	UNAR 18 (Sde = 400 mm) Ultrasonic proximity sensors	18x91,5 mm, metal	60 mm	400 mm	• Internal and external Teach-in • chemically resistant • IP 67
	UNCK 09 (with beam columnator) Ultrasonic proximity sensors	8,6x82x24,5 mm, plastic	3 mm	150 mm	• Teach-in input • IP 67
	UNCK 09 Ultrasonic proximity sensors	8,6x55x24,5 mm, plastic	30 mm	200 mm	• Teach-in input • IP 67
	UNDK 20 (Sd = 400 mm) Ultrasonic proximity sensors	20x42x15 mm, plastic	40 mm	400 mm	• IP 67
	UNDK 30 (Sd = 250 mm) Ultrasonic proximity sensors	30x65x31 mm, metal	30 mm	250 mm	• repeatability \leq 0,5 mm • IP 67
	UNDK 30 (Sd = 400 mm) Ultrasonic proximity sensors	30x65x31 mm, metal	60 mm	400 mm	• repeatability \leq 0,5 mm • IP 67
	URAM 12 (Sde = 70 mm, Highspeed) Ultrasonic retro-reflective sensors	12x70 mm, metal	0 mm	70 mm	• detects sound absorbing objects • no blind spot area • IP 67
	URCK 09 Ultrasonic retro-reflective sensors	8,6x55x24,5 mm, plastic	0 mm	200 mm	• detects sound absorbing objects • no blind spot area for objects > 30 mm • push-pull • IP 67

	<p>URDK 30 (Sde = 2000 mm)</p> <p>Ultrasonic retro-reflective sensors</p>	30x65x31 mm, metal	0 mm	2000 mm	<ul style="list-style-type: none"> • Internal Teach-in • IP 67
	<p>USDK 30 (Emitter)</p> <p>Ultrasonic through beam sensors</p>	30x65x18,5 mm, metal	0 mm	700 mm	<ul style="list-style-type: none"> • IP 67
	<p>UZAM 30</p> <p>Ultrasonic proximity sensors</p>	30x70 mm, metal	100 mm	1000 mm	<ul style="list-style-type: none"> • 2 outputs, each with one independent switching point • IP 67
	<p>UZAM 70</p> <p>Ultrasonic proximity sensors</p>	30x95 mm, metal	600 mm	6000 mm	<ul style="list-style-type: none"> • 2 outputs, each with one independent switching point • IP 67
	<p>UZDK 30 (Sd = 250 mm)</p> <p>Ultrasonic proximity sensors</p>	30x65x31 mm, metal	30 mm	250 mm	<ul style="list-style-type: none"> • 2 outputs, each with one independent switching point • IP 67
	<p>UZDK 30 (Sd = 400 mm)</p> <p>Ultrasonic proximity sensors</p>	30x65x31 mm, metal	60 mm	400 mm	<ul style="list-style-type: none"> • 2 outputs, each with one independent switching point • IP 67

sample picture	product family	housing	sensing distance min.	sensing distance max.	features
	MHRM 12 (Sn = 1,8 mm) Hall sensors	12x50 mm, metal	-	<0,7 mm (module 1), <2,4 mm (module 3)	<ul style="list-style-type: none"> • picks up the rpm speed • IP 67
	MHRM 12 (Sn = 1,0 mm) Hall sensors	12x60 mm, metal	-	<0,5 mm (module 1), <2,5 mm (module 3)	<ul style="list-style-type: none"> • full metal housing • picks up the rotational direction as well as rpm speed • IP 68
	MFRM 08 Magnetic proximity switches	8x30 mm, metal	-	60 mm	<ul style="list-style-type: none"> • Detects magnetic fields • IP 67
	MZTK 06 (T-slots, quick mounting) Magnetic cylinder sensors	6,2x4,5x31,5 mm, plastic	-	-	<ul style="list-style-type: none"> • sensor laid into T-slot from the top • wide voltage supply range • with output indicator • high protection class • IP 67
	MZCK 03 (C-slots, axial) Magnetic cylinder sensors	3,7x4,6x23 mm, plastic	-	-	<ul style="list-style-type: none"> • for all common cylinders with C-slots • wide voltage supply range • with output indicator • high protection class • IP 67
	IHRM 12 Hall sensors	12x60 mm, metal	-	<1 mm (module 1), <2,5 mm (module 3)	<ul style="list-style-type: none"> • Full metal housing • picks up the rpm speed • IP 68
	MFFM 08 Magnetic proximity switches	8x30 mm, metal	-	60 mm	<ul style="list-style-type: none"> • Detects magnetic fields • IP 67
	MFVM 08 Magnetic proximity switches	8x30 mm, metal	-	60 mm	<ul style="list-style-type: none"> • Detects magnetic fields • Full metal housing • IP 67
	MHRM 18 Hall sensors	18x60 mm, metal	-	0,7 mm (module 1), 1,8 mm (module 2)	<ul style="list-style-type: none"> • Full metal housing • picks up the rpm speed • IP 68
	MTR Hall sensors	16x90 mm, metal	-	-	<ul style="list-style-type: none"> • Full metal housing • railway standard • picks up the rotational direction as well as rpm speed • high insulation strength
	MTRM 16 Hall sensors	16x93 mm, metal	-	1,0 mm (module 1)	<ul style="list-style-type: none"> • Full metal housing • railway standard • picks up the rotational direction as well as rpm speed • IP 68

					
	MZCK 03 (C-slots, lateral) Magnetic cylinder sensors	3,7x19,5x11 mm, plastic	-	-	<ul style="list-style-type: none"> • for all common cylinders with C-slots • wide voltage supply range • with output indicator • high protection class • IP 67
	MZTK 06 (T-slots, axial) Magnetic cylinder sensors	6,2x4,3x31 mm, plastic	-	-	<ul style="list-style-type: none"> • for all common cylinders with T-slots • wide voltage supply range • with output indicator • high protection class • IP 67
	MZTK 06 (T-slots, lateral) Magnetic cylinder sensors	6,5x9,4x21 mm, plastic	-	-	<ul style="list-style-type: none"> • for all common cylinders with T-slots • wide voltage supply range • with output indicator • high protection class • IP 67

sample picture	product family	housing	sensing distance min.	sensing distance max.	features
	MY-COMA My-Com precision switches	8x20 mm, metal	-	-	<ul style="list-style-type: none"> • conical housing front • two wire break function (NC) • IP 50
	MY-COMB My-Com precision switches	8x20 mm, metal	-	-	<ul style="list-style-type: none"> • flat housing front • two wire break function (NC) • IP 50
	MY-COMF My-Com precision switches	8x28 mm, metal	-	-	<ul style="list-style-type: none"> • long body • long thread length • two wire break function (NC) • IP 50
	MY-COME (2-wire) My-Com precision switches	6x36 mm, metal	-	-	<ul style="list-style-type: none"> • spherical hard metal tip • thread M6 x 0,5 • two wire break function (NC) • IP 50
	MY-COME (3-wire) My-Com precision switches	6x47 mm, metal	-	-	<ul style="list-style-type: none"> • spherical hard metal tip • thread M6 x 0,5 • three wire make function (NO) • IP 50
	MY-COMC My-Com precision switches	8x20 mm, metal	-	-	<ul style="list-style-type: none"> • rectangular brass housing • two bore mounting • two wire break function (NC) • IP 50
	MY-COMH My-Com precision switches	8x21 mm, metal	-	-	<ul style="list-style-type: none"> • spherical ruby tip • two wire break function (NC) • protection class IP 67 • IP 67
	MY-COMM (2-Leiter) My-Com precision switches	8x27 mm, metal	-	-	<ul style="list-style-type: none"> • silicone gasket • protection class IP 67 • two wire break function (NC) • IP 67
	MY-COMD My-Com precision switches	16x56 mm, metal	-	-	<ul style="list-style-type: none"> • browned brass • two wire break function (NC) • protection class IP 67 • IP 67
	MY-COMG My-Com precision switches	8x28 mm, metal	-	-	<ul style="list-style-type: none"> • transistor output NPN / PNP • long thread length • three wire make function (NO) • IP 50
	MY-COML My-Com precision switches	8x30 mm, metal	-	-	<ul style="list-style-type: none"> • transistor output NPN / PNP • three wire make function (NO) • protection class IP 67 • IP 67



MY-COM M
(3-Leiter)











My-Com precision switches












8x27 mm, metal











-












-











- silicone gasket
- protection class IP 67
- three wire make function (NO)
- IP 67

sample picture	product family	housing	sensing distance min.	sensing distance max.	features
	OXE7.E (PosCon 3D) Edge sensors	26x74x55 mm, metal	150 mm	250 mm	<ul style="list-style-type: none"> • 0-10 VDC / 4-20 mA (adaptive) • measuring mode: edges, center, width, gap • RS 485 interface • IP 67
	OADM 20 (Laser, connector 5 pin, > 130 mm) Distance sensors	20,6x65x50 mm, metal	50 mm	600 mm	<ul style="list-style-type: none"> • response time < 0,9 ms • teachable measuring range Sr > 5 mm • IP 67
	OADM 12 (Laser) Distance sensors	12,4x37x34,5 mm, metal	16 mm	120 mm	<ul style="list-style-type: none"> • smallest distance measuring sensor • teachable measuring range Sr > 1 mm • resolution up to 2 µm • IP 67
	OADM 12 (Laser, class 1) Distance sensors	12,4x37x34,5 mm, metal	16 mm	120 mm	<ul style="list-style-type: none"> • smallest distance measuring sensor • teachable measuring range Sr > 1 mm • resolution up to 2 µm • Laser class 1 • IP 67
	OADM 13 (Laser, current output) Distance sensors	13,4x48,2x40 mm, metal	50 mm	550 mm	<ul style="list-style-type: none"> • compact housing, current output • teachable measuring range Sr > 5 mm • resolution up to 10 µm • IP 67
	FADK 14 (current output) Distance sensors	14,8x43x31 mm, plastic	50 mm	400 mm	<ul style="list-style-type: none"> • compact design • measuring distance Sd 50 ... 400 mm • resolution up to 0,1 mm • IP 67
	ZADM 023 (PosCon, short measuring range) Edge sensors	23 mm, metal	50 mm	500 mm	<ul style="list-style-type: none"> • Teach-in measuring range • measuring mode: edges, center, width • RS 485 interface • IP 67
	ZADM 034 (ParCon, analog output) Edge sensors	34 mm, metal	0 mm	40 mm	<ul style="list-style-type: none"> • measuring of edge position and object width • parallel, uniform light beam • high measuring frequency • IP 67
	OADM 20 (Laser, connector 8 pins, < 300 mm) Distance sensors	20,6x65x50 mm, metal	30 mm	300 mm	<ul style="list-style-type: none"> • response time < 0,9 ms • teachable measuring range Sr > 2 mm • resolution up to 4 µm • IP 67
	FADK 14 (voltage output) Distance sensors	14,8x43x31 mm, plastic	50 mm	400 mm	<ul style="list-style-type: none"> • compact design • measuring distance Sd 50 ... 400 mm • resolution up to 0,1 mm • IP 67

	OXC7 (PosCon CM)	26x74x55 mm, metal	150 mm	250 mm	<ul style="list-style-type: none"> • Measurement of center positions, diameters, and outer positions of round objects • Suitable for outer diameters up to 130 mm • Output in mm • Touch display for parameterization • Extra wide, adjustable measuring field • Laser class 1 • IP 67
	OXH7 (PosCon HM)	26x74x55 mm, metal	100 mm	150 mm	<ul style="list-style-type: none"> • Position-independent height measurements • Very high resolution up to 2 µm • Output in mm • Touch display for parameterization • Extra wide, adjustable measuring field • Laser class 1 • IP 67
	OXH7 (PosCon HM)	26x74x55 mm, metal	100 mm	500 mm	<ul style="list-style-type: none"> • Position-independent height measurements • Very high resolution up to 4 µm • Output in mm • Touch display for parameterization • Adjustable measuring field • Laser class 2 • IP 67
	FADH 14 (current output) Distance sensors	19,6x52,2x34,3 mm, metal	50 mm	400 mm	<ul style="list-style-type: none"> • hygiene design • compact design • measuring distance Sd 50 ... 400 mm • resolution up to 0,1 mm • IP 68/69K & proTect+
	FADH 14 (voltage output) Distance sensors	19,6x52,2x34,3 mm, metal	50 mm	400 mm	<ul style="list-style-type: none"> • hygiene design • compact design • measuring distance Sd 50 ... 400 mm • resolution up to 0,1 mm • IP 68/69K & proTect+
	FADR 14 (current output) Distance sensors	19,6x51x34,3 mm, metal	50 mm	400 mm	<ul style="list-style-type: none"> • washdown design • compact design • measuring distance Sd 50 ... 400 mm • resolution up to 0,1 mm • IP 68/69K & proTect+
	FADR 14 (voltage output) Distance sensors	19,6x51x34,3 mm, metal	50 mm	400 mm	<ul style="list-style-type: none"> • washdown design • compact design • measuring distance Sd 50 ... 400 mm • resolution up to 0,1 mm • IP 68/69K & proTect+
	FCE xCD 1 Fiber optics	3x12 mm, metal	1 mm	400 mm	<ul style="list-style-type: none"> • with thread
	FCE xEF 1 Fiber optics	6x18 mm, metal	1 mm	46 mm	<ul style="list-style-type: none"> • with thread
	FKE xCD 1 Fiber optics	5x31,2 mm, metal	1 mm	70 mm	<ul style="list-style-type: none"> • with thread
	FLC xCD 2 Fiber optics	5x14,7 mm, metal	-	4500 mm	<ul style="list-style-type: none"> • Chemical and oil proof • Smooth sensing head

	FLE xCD 1 Fiber optics	4x15 mm, metal	1 mm	530 mm	• with thread
	FPE xCD 1 Fiber optics	4x28 mm, metal	-	4140 mm	• with thread
	FPE xCD 4 Fiber optics	4x30 mm, metal	-	4500 mm	• Smooth sensing head • side view
	FSA xCD 1 Fiber optics	4x14 mm, metal	-	690 mm	• Heat resistant • with thread
	FSB xCD 1 Fiber optics	4x17 mm, metal	-	1200 mm	• Heat and cold resistant • with thread
	FSC xCD 4 Fiber optics	4,7x15,8 mm, metal	-	1030 mm	• Chemical and oil proof • Smooth sensing head • side view
	FSE xCD 1 Fiber optics	3x11 mm, metal	-	1200 mm	• with thread
	FSE xCD 2 Fiber optics	3x15 mm, metal	-	1200 mm	• Smooth sensing head
	FSE xCD 4 Fiber optics	4x22 mm, metal	-	750 mm	• with thread • Smooth sensing head • side view
	FSE xCD 6 Fiber optics	20x25x3 mm, metal	-	790 mm	• Array • Line length = Number of holes x hole spacing

	FSE xEF 1 Fiber optics	3x11 mm, metal	-	900 mm	• with thread
	FSE xEF 4 Fiber optics	2,5x27 mm, metal	-	52 mm	• Smooth sensing head • side view
	FSE xEF 6 Fiber optics	12x8x3 mm, plastic	-	140 mm	-
	FUA xCD 1 Fiber optics	6x20 mm, metal	1 mm	200 mm	• Heat resistant • with thread
	FUB xCD 1 Fiber optics	6x17 mm, metal	1 mm	400 mm	• Heat and cold resistant • with thread
	FUC xCD 2 Fiber optics	6x16 mm, metal	1 mm	170 mm	• Chemically resistant • Smooth sensing head
	FUE xCD 1 Fiber optics	3x11 mm, metal	1 mm	300 mm	• with thread
	FUE xCD 2 Fiber optics	4x20 mm, metal	1 mm	300 mm	• Smooth sensing head
	FUE xCD 4 Fiber optics	3x55 mm, metal	1 mm	40 mm	• Smooth sensing head • side view
	FUE xCD 6 Fiber optics	20,6x20,6x5 mm, metal	1 mm	265 mm	• Array • Line length = Number of holes x hole spacing
	FUE xEF 1 Fiber optics	3x10 mm, metal	1 mm	210 mm	• with thread

	FUG xCD 1	6x25 mm, metal	1 mm	160 mm	<ul style="list-style-type: none"> • Heat and cold resistant • with thread • Glass fibers
	FWDK 84 (analog output) Fiber optic sensors & cables	10x29,7x60 mm, plastic	-	90 mm	<ul style="list-style-type: none"> • analog output 1 ... 5 VDC • adjustable resolution • IP 40
	FWE xCD 1 Fiber optics	3x14 mm, metal	-	2175 mm	<ul style="list-style-type: none"> • with thread
	FWE xCD 2 Fiber optics	3x15 mm, metal	-	2350 mm	<ul style="list-style-type: none"> • Smooth sensing head
	OADM 25 (Laser) Distance sensors	23,4x63x45 mm, plastic	100 mm	1000 mm	<ul style="list-style-type: none"> • qTeach • alarm output • IP 67
	OADM 12 (Laser, RS485 interface) Distance sensors	12,4x37x34,5 mm, metal	16 mm	120 mm	<ul style="list-style-type: none"> • smallest distance measuring sensor • serial interface RS 485 • resolution up to 4 µm • Laser class 1 • IP 67
	OADM 13 (Laser, current output, focused beam) Distance sensors	13,4x48,2x40 mm, metal	50 mm	200 mm	<ul style="list-style-type: none"> • compact housing, current output • high sensitivity • fine laser line • IP 67
	OADM 13 (Laser, RS232 interface) Distance sensors	13,4x48,2x40 mm, metal	50 mm	550 mm	<ul style="list-style-type: none"> • serial interface RS 232 • resolution up to 50 µm • also with laser line for rough surfaces • IP 67
	OADM 13 (Laser, RS485 interface) Distance sensors	13,4x48,2x40 mm, metal	50 mm	550 mm	<ul style="list-style-type: none"> • serial interface RS 485 • resolution up to 50 µm • also with laser line for rough surfaces • IP 67
	OADM 13 (Laser, voltage output) Distance sensors	13,4x48,2x40 mm, metal	50 mm	550 mm	<ul style="list-style-type: none"> • compact housing, voltage output • teachable measuring range $S_r > 5$ mm • resolution up to 10 µm • IP 67

	OADM 13 (Laser, voltage output, focused beam) Distance sensors	13,4x48,2x40 mm, metal	50 mm	200 mm	<ul style="list-style-type: none"> • compact housing, voltage output • high sensitivity • fine laser line • IP 67
	OADM 20 (Laser, connector 5 pin, < 130 mm) Distance sensors	20,6x65x50 mm, metal	30 mm	130 mm	<ul style="list-style-type: none"> • response time < 0,9 ms • teachable measuring range $S_r > 2$ mm • IP 67
	OADM 20 (Laser, connector 8 pins, > 300 mm) Distance sensors	20,6x65x50 mm, metal	100 mm	1000 mm	<ul style="list-style-type: none"> • response time < 0,9 ms • teachable measuring range $S_r > 10$ mm • resolution up to 15 μm • IP 67
	OADM 20 (Laser, fixed sensing range, < 250 mm) Distance sensors	20,6x65x50 mm, metal	30 mm	250 mm	<ul style="list-style-type: none"> • current or voltage output • resolution up to 10 μm • also with laser line for rough surfaces • IP 67
	OADM 20 (Laser, fixed sensing range, > 250 mm) Distance sensors	20,6x65x50 mm, metal	100 mm	1000 mm	<ul style="list-style-type: none"> • current or voltage output • resolution up to 0,2 mm • also with laser line for rough surfaces • IP 67
	OADM 20 (Laser, outdoor applications, < 1000 mm) Distance sensors	20,6x65x50 mm, metal	50 mm	1000 mm	<ul style="list-style-type: none"> • for demanding applications • very high ambient light immunity • extremely vibration resistant • IP 67
	OADM 21 (Laser) Distance sensors	20,4x135x45 mm, metal	100 mm	1000 mm	<ul style="list-style-type: none"> • teachable measuring range $S_r > 10$ mm • resolution up to 10 μm • synchronization input • IP 67
	OADM 250 (Laser) Distance sensors	25,4x66x51 mm, metal	200 mm	4000 mm	<ul style="list-style-type: none"> • measuring independent of colors up to 4 m • extremely compact housing • teachable measuring range • IP 67
	OADM 260 (Laser) Distance sensors	25,4x66x51 mm, metal	200 mm	13000 mm	<ul style="list-style-type: none"> • measuring up to 13 m • extremely compact housing • teachable measuring range • IP 67
	OADR 20 (Laser, variable sensing range) Distance sensors	20,3x65x51 mm, metal	30 mm	600 mm	<ul style="list-style-type: none"> • washdown design • Ecolab approved • front screen PMMA • IP 69K & proTect+
	OM70 (MESAX multi-spot) Distance sensors	26x74x55 mm, metal	100 mm	150 mm	<ul style="list-style-type: none"> • Stable measurement values even on coarse and shiny surfaces • Very high resolution up to 2 μm • Output in mm • Touch display for parameterization • Extra wide, adjustable measuring field • Laser class 1 • IP 67

	<p>OM70 (MESAX multi-spot)</p> <p>Distance sensors</p>	<p>26x74x55 mm, metal</p>	<p>100 mm</p>	<p>500 mm</p>	<ul style="list-style-type: none"> • Stable measurement values even on coarse and shiny surfaces • Very high resolution up to 4 µm • Output in mm • Touch display for parameterization • Extra wide, adjustable measuring field • Laser class 2 • IP 67
	<p>ZADM 023 (PosCon, large measuring range)</p> <p>Edge sensors</p>	<p>23 mm, metal</p>	<p>640 mm</p>	<p>1400 mm</p>	<ul style="list-style-type: none"> • Teach-in measuring range • measuring mode: edges, center, width • RS 485 interface • IP 67
	<p>ZADM 034 (ParCon, for large distances)</p> <p>Edge sensors</p>	<p>34 mm, metal</p>	<p>0 mm</p>	<p>200 mm</p>	<ul style="list-style-type: none"> • measuring of edge position and object width • parallel, uniform light beam • high measuring frequency • IP 67
	<p>ZADM 034 (ParCon, switching output)</p> <p>Edge sensors</p>	<p>34 mm, metal</p>	<p>0 mm</p>	<p>40 mm</p>	<ul style="list-style-type: none"> • detection of small objects • measuring area 24 x 40 mm • high measuring frequency • IP 67

PosCon 3D

OXE7.E25T-11111452 - Edge sensors

general data	
type	measuring mode: edges, center, width, gap
version	PosCon 3D
measuring range (width)	75 ... 125 mm
measuring range (distance)	150 ... 250 mm
power on indication	LED green
output indicator	LED yellow / LED red
light source	pulsed red laser diode
wave length	656 nm
laser class	1
optical peak power max.	3 mW
adjustment	Touch Display, RS485
electrical data	
voltage supply range +Vs	15 ... 28 VDC
current consumption max. (no load)	150 mA
output circuit	analog and RS 485
output signal	4 ... 20 mA / 0 ... 10 VDC
switching output	push-pull
output function	Out 1 / Alarm
output current	< 100 mA
baud rate	115200, adjustable
reverse polarity protection	yes, Vs to GND
short circuit protection	yes
mechanical data	
width / diameter	26 mm
height / length	74 mm
depth	55 mm
type	rectangular, front view
housing material	aluminum
front (optics)	glass
connection types	connector M12 8 pin
weight	130 g








PosCon 3D for very dark objects









OXE7.E25T-11111452 - Edge sensors









general data	
type	measuring mode: edges, center, width, gap
version	PosCon 3D
measuring range (width)	75 ... 125 mm
measuring range (distance)	150 ... 250 mm
power on indication	LED green
output indicator	LED yellow / LED red
light source	pulsed red laser diode
wave length	656 nm
laser class	1
optical peak power max.	3 mW
adjustment	Touch Display, RS485
electrical data	
voltage supply range +Vs	15 ... 28 VDC
current consumption max. (no load)	150 mA
output circuit	analog and RS 485
output signal	4 ... 20 mA / 0 ... 10 VDC
switching output	push-pull
output function	Out 1 / Alarm
output current	< 100 mA
baud rate	115200, adjustable
reverse polarity protection	yes, Vs to GND
short circuit protection	yes
mechanical data	
width / diameter	26 mm
height / length	74 mm
depth	55 mm
type	rectangular, front view
housing material	aluminum
front (optics)	glass
connection types	connector M12 8 pin
weight	130 g









sample picture	product family	housing	sensing distance min.	sensing distance max.	features
	ZADM 034 (ParCon, analog output) Edge sensors	34 mm, metal	0 mm	40 mm	<ul style="list-style-type: none"> • measuring of edge position and object width • parallel, uniform light beam • high measuring frequency • IP 67
	ZADM 034 (ParCon, for large distances) Edge sensors	34 mm, metal	0 mm	200 mm	<ul style="list-style-type: none"> • measuring of edge position and object width • parallel, uniform light beam • high measuring frequency • IP 67
	ZADM 034 (ParCon, switching output) Edge sensors	34 mm, metal	0 mm	40 mm	<ul style="list-style-type: none"> • detection of small objects • measuring area 24 x 40 mm • high measuring frequency • IP 67
	<u>OXE7.E</u> (PosCon 3D) Edge sensors	26x74x55 mm, metal	150 mm	250 mm	<ul style="list-style-type: none"> • 0-10 VDC / 4-20 mA (adaptive) • measuring mode: edges, center, width, gap • RS 485 interface • IP 67
	<u>ZADM 023</u> (PosCon, short measuring range) Edge sensors	23 mm, metal	50 mm	500 mm	<ul style="list-style-type: none"> • Teach-in measuring range • measuring mode: edges, center, width • RS 485 interface • IP 67
	<u>ZADM 023</u> (PosCon, large measuring range) Edge sensors	23 mm, metal	640 mm	1400 mm	<ul style="list-style-type: none"> • Teach-in measuring range • measuring mode: edges, center, width • RS 485 interface • IP 67
	<u>FLDK 110</u> (Laser, Scatec-2 box) Copy counters	30 mm, plastic	0 mm	120 mm	<ul style="list-style-type: none"> • Laser copy counter / edge detector • Individual package detection with seamless product detection • Selectable output pulse length • IP 54









	<p>FLDK 110 (Laser, Scatec-2)</p> <p>Copy counters</p>	<p>30 mm, plastic</p>	<p>0 mm</p>	<p>120 mm</p>	<ul style="list-style-type: none"> • Smallest laser copy counter on the market • counting of up to 600'000 copies/hour • Sensitivity $\geq 0,2$ mm • Selectable output pulse length • IP 54
	<p>FLDK 110 (Laser, Scatec-J)</p> <p>Copy counters</p>	<p>30 mm, plastic</p>	<p>0 mm</p>	<p>55 mm</p>	<ul style="list-style-type: none"> • Smallest laser copy counter on the market • counting of up to 280'000 copies/hour • Sensitivity $\geq 1,5$ mm • IP 54
	<p>FLDM 170 (Laser, Scatec-10)</p> <p>Copy counters</p>	<p>30 mm, metal</p>	<p>0 mm</p>	<p>90 mm</p>	<ul style="list-style-type: none"> • up to 3 million copies/hour • Sensitivity $\geq 0,1$ mm • display and integrated counter • Selectable output pulse length • Integrated gap detection and Sync-input • IP 54
	<p>FLDM 170 (Laser, Scatec-15)</p> <p>Copy counters</p>	<p>30 mm, metal</p>	<p>0 mm</p>	<p>120 mm</p>	<ul style="list-style-type: none"> • up to 3 million copies/hour • Sensitivity $\geq 0,15$ mm • display and integrated counter • Selectable output pulse length • Integrated gap detection and Sync-input • IP 54









sample picture	product family	housing	sensing distance min.	sensing distance max.	features
Линейные					
	MIL10	-	-	5 µm (4-times evaluation)	<ul style="list-style-type: none"> • Output signals A 90° B or A 90° B +R • Protection IP 67
Инкрементные					
	EIL580-T - through hollow shaft	ø58 mm	ø8...15 mm (through hollow shaft)	100...5000	<ul style="list-style-type: none"> • Compact • Industrial standard
	ExEIL580-T - through hollow shaft	ø58 mm	ø8...15 mm (through hollow shaft)	100...5000	<ul style="list-style-type: none"> • Industrial standard • ATEX II 3 D (Zone 22)
	EIL580P-T - through hollow shaft	ø58 mm	ø8...15 mm (through hollow shaft)	1...65536	<ul style="list-style-type: none"> • Compact • Industrial standard • Programmable
	ExEIL580P-T - through hollow shaft	ø58 mm	ø8...15 mm (through hollow shaft)	1...65536	<ul style="list-style-type: none"> • Programmable • ATEX II 3 D (Zone 22)
	EIL580-B - blind hollow shaft	ø58 mm	ø8...15 mm (blind hollow shaft)	100...5000	<ul style="list-style-type: none"> • Compact • Industrial standard
	ExEIL580-B - blind hollow shaft	ø58 mm	ø8...15 mm (blind hollow shaft)	100...5000	<ul style="list-style-type: none"> • Industrial standard • ATEX II 3 D (Zone 22)








	EIL580P-B - blind hollow shaft	ø58 mm	ø8...15 mm (blind hollow shaft)	1...65536	<ul style="list-style-type: none"> • Compact • Industrial standard • Programmable
	ExEIL580P-B - blind hollow shaft	ø58 mm	ø8...15 mm (blind hollow shaft)	1...65536	<ul style="list-style-type: none"> • Programmable • ATEX II 3 D (Zone 22)
	EIL580-SC - clamping flange	ø58 mm	ø10 x 20 mm, solid shaft with flat (clamping flange) ø3/8" x 4/5" (ø9.525 x 20.32 mm), solid shaft with flat	100...5000	<ul style="list-style-type: none"> • Compact • Industrial standard
	ExEIL580-SC - clamping flange	ø58 mm	ø10 x 20 mm, solid shaft with flat (clamping flange)	100...5000	<ul style="list-style-type: none"> • Industrial standard • ATEX II 3 D (Zone 22)
	EIL580P-SC - clamping flange	ø58 mm	ø10 x 20 mm, solid shaft with flat (clamping flange) ø3/8" x 4/5" (ø9.525 x 20.32 mm), solid shaft with flat	1...65536	<ul style="list-style-type: none"> • Compact • Industrial standard • Programmable
	ExEIL580P-SC - clamping flange	ø58 mm	ø10 x 20 mm, solid shaft with flat (clamping flange)	1...65536	<ul style="list-style-type: none"> • Programmable • ATEX II 3 D (Zone 22)
	EIL580-S1B1 - EURO flange B10	ø115 mm	ø11 x 30 mm solid shaft with woodruff key	100...5000	<ul style="list-style-type: none"> • Compact • Industrial standard
	EIL580-SQ10 - Square flange	2.5 x 2.5" (63.5 x 63.5 mm)	ø10 x 20 mm, solid shaft with flat ø3/8" x 4/5" (ø9.525 x 20.32 mm), solid shaft with flat	100...5000	<ul style="list-style-type: none"> • Compact • Industrial standard








	EIL580P-SQ10 - Square flange	2.5 x 2.5" (63.5 x 63.5 mm)	ø10 x 20 mm, solid shaft with flat ø3/8" x 4/5" (ø9.525 x 20.32 mm), solid shaft with flat	1...65536	<ul style="list-style-type: none"> • Compact • Industrial standard • Programmable
	EIL580-SY - synchro flange	ø58 mm	ø6 x 10 mm, solid shaft with flat (synchro flange)	100...5000	<ul style="list-style-type: none"> • Compact • Industrial standard
	ExEIL580-SY - synchro flange	ø58 mm	ø6 x 10 mm, solid shaft with flat (synchro flange)	100...5000	<ul style="list-style-type: none"> • Industrial standard • ATEX II 3 D (Zone 22)
	EIL580P-SY - synchro flange	ø58 mm	ø6 x 10 mm, solid shaft with flat (synchro flange)	1...65536	<ul style="list-style-type: none"> • Compact • Industrial standard • Programmable
	ExEIL580P-SY - synchro flange	ø58 mm	ø6 x 10 mm, solid shaft with flat (synchro flange)	1...65536	<ul style="list-style-type: none"> • Programmable • ATEX II 3 D (Zone 22)
	EIL580-T - through hollow shaft - Option 6301	ø58 mm	ø8...15 mm (through hollow shaft)	100...5000	<ul style="list-style-type: none"> • Compact • Industrial standard
	EIL580-B - blind hollow shaft - Option 6301	ø58 mm	ø8...15 mm (blind hollow shaft)	100...5000	<ul style="list-style-type: none"> • Compact • Industrial standard
	AG 14	ø139 mm	ø70 mm (through hollow shaft)	250...2500	<ul style="list-style-type: none"> • Attached encoder • Short overall length • Large through hollow shaft









	BDH	ø55 mm	ø10 mm solid shaft (clamping flange)	10...5000	<ul style="list-style-type: none"> • Small profile depth
	BDH - HighRes	ø55 mm	ø10 mm solid shaft (clamping flange)	7200...320000	<ul style="list-style-type: none"> • Small profile depth
	BDK	ø30 mm	ø5 mm solid shaft	10...2048	<ul style="list-style-type: none"> • Operation speed max. 12000 rpm
	BDT	ø58 mm	ø6 mm solid shaft (synchro flange)	10...5000	<ul style="list-style-type: none"> • Small profile depth
	BDT - HighRes	ø58 mm	ø6 mm solid shaft (synchro flange)	7200...320000	<ul style="list-style-type: none"> • Small profile depth
	BDT sine	ø58 mm	ø6 mm solid shaft (synchro flange)	1000...5000	<ul style="list-style-type: none"> • Sine output
	BHF	ø58 mm	ø12 mm (blind hollow shaft)	10...5000	<ul style="list-style-type: none"> • Small profile depth
	BHF - HighRes	ø58 mm	ø12 mm (blind hollow shaft)	4096...320000	<ul style="list-style-type: none"> • High resolution • Programmable








	BHF sine	ø58 mm	ø12 mm (blind hollow shaft)	1000...5000	<ul style="list-style-type: none"> • Sine output
	BHG	ø58 mm	ø12 mm (through hollow shaft)	10...5000	<ul style="list-style-type: none"> • Small profile depth
	BHG - HighRes	ø58 mm	ø12 mm (through hollow shaft)	4096...320000	<ul style="list-style-type: none"> • High resolution • Programmable
	BHG sine	ø58 mm	ø12 mm (through hollow shaft)	1000...5000	<ul style="list-style-type: none"> • Sine output
	BHK	ø40 mm	ø6 mm (through hollow shaft) ø12 mm (blind hollow shaft)	10...2048	<ul style="list-style-type: none"> • Operation speed max. 12000 rpm
	BHT	ø58 mm	ø9.52 mm (blind hollow shaft) ø10 mm (blind hollow shaft)	20...5000	<ul style="list-style-type: none"> • Integrated flexible coupling
	BHT sine	ø58 mm	ø9.52 mm (blind hollow shaft) ø10 mm (blind hollow shaft)	1000...5000	<ul style="list-style-type: none"> • Sine output
	BHW - HighRes	ø80 mm	ø27 mm (through hollow shaft)	10000...320000	<ul style="list-style-type: none"> • High resolution • Programmable







	BNIV	ø40 mm	ø6 mm solid shaft	100...25000	<ul style="list-style-type: none"> • Programmable via HEX-switch
	BRID - EcoMag	ø58 mm	ø12 mm (through hollow shaft)	64...2048	<ul style="list-style-type: none"> • Wide pulse number range
	BRIH - EcoMag	ø58 mm	ø12 mm (blind hollow shaft)	64...2048	<ul style="list-style-type: none"> • Wide pulse number range
	BRIH 40 - EcoMag	ø40 mm	ø6 mm (blind hollow shaft) ø12 mm (blind hollow shaft)	2...1024	<ul style="list-style-type: none"> • Wide pulse number range
	BRIV 30 - EcoMag	ø30 mm	ø5 mm solid shaft	2...1024	<ul style="list-style-type: none"> • Wide pulse number range
	BRIV 30R - EcoMag	ø30 mm	ø6 mm solid shaft ø8 mm solid shaft	2...1024	<ul style="list-style-type: none"> • Temperature range -40...+85 °C
	BRIV 58K - EcoMag	ø58 mm	ø10 mm solid shaft (clamping flange)	64...2048	<ul style="list-style-type: none"> • Clamping flange
	BRIV 58S - EcoMag	ø58 mm	ø6 mm solid shaft (synchro flange)	64...2048	<ul style="list-style-type: none"> • Synchro flange








	ExG25	2.5 x 2.5" (63.5 x 63.5 mm) ø2.283" (ø58 mm)	ø0.375" (ø9.52 mm) solid shaft	5...6000	<ul style="list-style-type: none"> • Square flange • Inch dimensions • MIL connector
	EEx HOG 161	ø160 mm	ø30...70 mm (through hollow shaft)	250...2500	<ul style="list-style-type: none"> • ATEX II 2 G • IECEx approval
	EEx OG 9	ø115 mm	ø11 mm solid shaft	25...5000	<ul style="list-style-type: none"> • ATEX II 2 G • IECEx approval
	EEx OG 9 S	ø115 mm	ø11 mm solid shaft	1024...2048	<ul style="list-style-type: none"> • ATEX II 2 G • IECEx approval
	FOG 9 + GT 7.08	ø115 mm	ø11 mm solid shaft	100...5000	<ul style="list-style-type: none"> • Encoder combination with tachogenerator • Connector with metal mating connector • EURO flange B10 • High response speed
	FOG 9	ø115 mm	ø10...11 mm solid shaft	100...5000	<ul style="list-style-type: none"> • Flange connector with metal mating connector • EURO flange B10 • ATEX II 3 G / 3 D • Function control with Enhanced Monitoring System
	FOG 9 + GT 7.16	ø115 mm	ø11 mm solid shaft	100...5000	<ul style="list-style-type: none"> • Encoder combination with tachogenerator • Connector with metal mating connector • EURO flange B10 • High response speed • No auxiliary

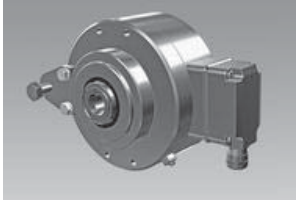





					energy source required
	G 305	62.5 x 70 mm	ø7 mm solid shaft single / dual shaft	5...120	<ul style="list-style-type: none"> • Surface mount housing
	G0333	ø58 mm	ø12 mm (through hollow shaft)	6000...80000	<ul style="list-style-type: none"> • High resolution
	G0355	ø58 mm	ø10 mm solid shaft	6000...80000	<ul style="list-style-type: none"> • High resolution
	G0356	ø58 mm	ø6 mm solid shaft	6000...80000	<ul style="list-style-type: none"> • High resolution
	G110H	ø75 mm	ø20 mm (through hollow shaft) ø25 mm (through hollow shaft) ø25.4 mm (through hollow shaft)	1024...16384	<ul style="list-style-type: none"> • Large hollow shaft
	G110S	ø75 mm	ø20 mm (blind hollow shaft) ø25 mm (blind hollow shaft)	1024...16384	<ul style="list-style-type: none"> • Large diameter blind shaft
	G25	2.5 x 2.5" (63.5 x 63.5 mm)	ø0.375" (ø9.52 mm) solid shaft	5...6000	<ul style="list-style-type: none"> • Square flange • Inch dimensions • MIL connector or cable
	GE333	ø58 mm	ø12 mm (through hollow shaft)	5...6000	<ul style="list-style-type: none"> • Stainless steel design






	GE355	ø58 mm	ø10 mm solid shaft (clamping flange)	5...6000	<ul style="list-style-type: none"> • Stainless steel design
	GI330	ø58 mm	ø12 mm (blind hollow shaft)	5...6000	<ul style="list-style-type: none"> • High resolution
	GI331	ø58 mm	ø12 mm (through hollow shaft)	5...6000	<ul style="list-style-type: none"> • High resolution
	GI332	ø58 mm	ø12 mm (blind hollow shaft) ø14 mm (blind hollow shaft)	5...6000	<ul style="list-style-type: none"> • High resolution
	GI333	ø58 mm	ø12 mm (through hollow shaft) ø14 mm (through hollow shaft)	5...6000	<ul style="list-style-type: none"> • High resolution
	GI341	ø58 mm	ø10...15 mm (blind hollow shaft)	5...2048	<ul style="list-style-type: none"> • Compact
	GI342	ø58 mm	ø10...15 mm (through hollow shaft)	5...2048	<ul style="list-style-type: none"> • Compact
	GI352	63.5 x 63.5 mm	ø9.52 mm solid shaft	5...6000	<ul style="list-style-type: none"> • Square flange • Inch dimensions • MIL connector







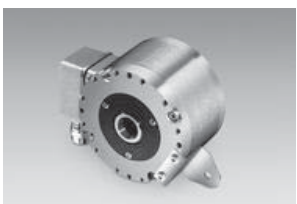
	GI355	ø58 mm	ø10 mm solid shaft	5...6000	<ul style="list-style-type: none"> • Industrial standard
	GI356	ø58 mm	ø6 mm solid shaft	5...6000	<ul style="list-style-type: none"> • Industrial standard
	GI357	ø58 mm	ø6 mm solid shaft (synchro flange) ø10 mm solid shaft (clamping flange)	5...5000	<ul style="list-style-type: none"> • SIL2 approval
	GPI0W	ø58 mm	ø6 mm solid shaft (synchro flange) ø10 mm solid shaft (clamping flange)	50...500	<ul style="list-style-type: none"> • PTB approved
	HOG 10	ø105 mm	ø12...20 mm (blind hollow shaft) ø17 mm (cone shaft 1:10)	300...5000	<ul style="list-style-type: none"> • Radial terminal box or axial terminal cover • Blind hollow shaft up to ø20 mm • ATEX II 3 G / 3 D • Redundant sensing • Function control with Enhanced Monitoring System
	HOG 100	ø105 mm	ø16 mm (blind hollow shaft) ø17 mm (cone shaft 1:10)	1024...10000	<ul style="list-style-type: none"> • Radial terminal box or axial terminal cover • High resolution • ATEX II 3 G / 3 D
	HOG 11 DNV	ø105 mm	ø16 mm (blind hollow shaft)	300...2500	<ul style="list-style-type: none"> • Very high protection IP 67 • Offshore and salt water firm • DNV approval

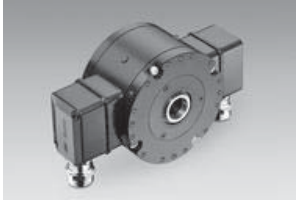
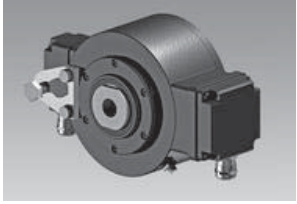
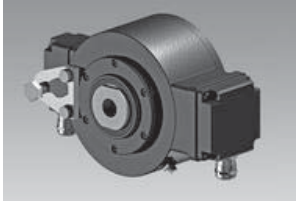




	HOG 11	ø105 mm	ø12...20 mm (blind hollow shaft) ø17 mm (cone shaft 1:10)	300...5000	<ul style="list-style-type: none"> • Very high protection IP 67 • Offshore and salt water firm • Radial terminal box or axial terminal cover • ATEX II 3 G / 3 D • Redundant sensing • Function control with Enhanced Monitoring System
	HOG 10 + DSL.E	ø105 mm	ø16 mm (blind hollow shaft)	512...2500	<ul style="list-style-type: none"> • Incremental encoder combination with digital speed switch • Programmable for 2 switching speeds and 1 control output • ATEX II 3G/3D
	HOG 12	ø125 mm	ø30...45 mm (through hollow shaft)	600...1200	<ul style="list-style-type: none"> • Optical sensing method • Robust light-metal housing
	HOG 131	ø130 mm	ø16...36 mm (through hollow shaft)	1024...3072	<ul style="list-style-type: none"> • ATEX II 3 G / 3 D • Integrated lightning protection • Hybrid bearing with ceramic balls • Especially sealed for offshore applications
	HOG 14	ø158 mm	ø40...75 mm (through hollow shaft)	1024...5000	<ul style="list-style-type: none"> • Optical sensing method • Robust light-metal housing • ATEX II 3 G / 3 D
	HOG 10 + DSL.R	ø105 mm	ø16 mm (blind hollow shaft)	512...2500	<ul style="list-style-type: none"> • Incremental encoder combination with digital speed switch • Programmable for 3 switching speeds • ATEX II 3G/3D

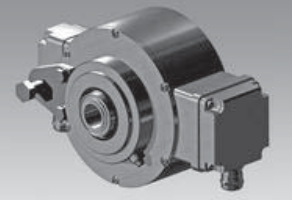

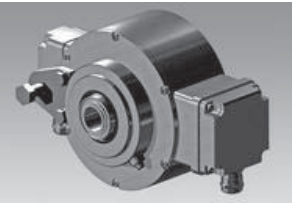
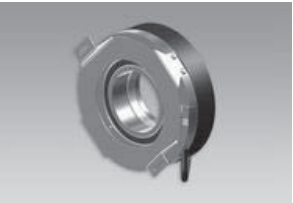




	HOG 16	ø158 mm	ø20...38 mm (through hollow shaft)	250...2500	<ul style="list-style-type: none"> • Through hollow shaft up to ø38 mm • Redundant sensing
	HOG 86 + DSL	ø99 mm	ø16 mm (blind hollow shaft)	512...2500	<ul style="list-style-type: none"> • Incremental encoder combination with digital speed switch • Programmable for 3 switching speeds
	HOG 10 + ESL 90	ø105 mm	ø16...20 mm (blind hollow shaft) ø17 mm (cone shaft 1:10)	300...5000	<ul style="list-style-type: none"> • Encoder combination with electronic speed switch ESL 90 • Redundant sensing • Function control with Enhanced Monitoring System
	HOG 161	ø158 mm	ø38...75 mm (through hollow shaft)	250...2500	<ul style="list-style-type: none"> • ATEX II 3 G / 3 D • Redundant sensing
	HOG 10 + ESL 93	ø105 mm	ø16...20 mm (blind hollow shaft) ø17 mm (cone shaft 1:10)	300...5000	<ul style="list-style-type: none"> • Encoder combination with electronic speed switch ESL 90 • Redundant sensing • Function control with Enhanced Monitoring System
	HOG 163	ø158 mm	ø38...75 mm (through hollow shaft)	250...5000	<ul style="list-style-type: none"> • ATEX II 3 G / 3 D • Redundant sensing
	HOG 10 + FSL	ø105 mm	ø16...20 mm (blind hollow shaft) ø17 mm (cone shaft 1:10)	300...5000	<ul style="list-style-type: none"> • Encoder combination with centrifugal switch FSL • Blind hollow shaft up to ø20 mm • Redundant sensing • Function control









					with Enhanced Monitoring System
	HOG 165	ø165 mm	ø20...38 mm (blind hollow shaft)	1024...8192	<ul style="list-style-type: none"> • Special protection against corrosion • Large terminal box, turn by 180° • ATEX II 3 G / 3 D • Very high resistance to shock and vibrations
	HOG 86 + FSL	ø105 mm	ø16 mm (blind hollow shaft) ø17 mm (cone shaft 1:10)	500...5000	<ul style="list-style-type: none"> • Encoder combination with centrifugal switch FSL • Redundant sensing • Function control with Enhanced Monitoring System
	HOG 10 G	ø105 mm	ø16...20 mm (blind hollow shaft) ø17 mm (cone shaft 1:10)	300...5000	<ul style="list-style-type: none"> • Twin encoder combination with double sensing • ATEX II 3G/3D • Redundant sensing • Function control with Enhanced Monitoring System
	HOG 22	ø227 mm	ø80...115 mm (through hollow shaft)	720...4000	<ul style="list-style-type: none"> • ATEX II 3 G / 3 D • Redundant sensing • Plug-in electronics
	HOG 220	ø227 mm	ø80...115 mm (through hollow shaft)	1024	<ul style="list-style-type: none"> • ATEX II 3 G / 3 D • Redundant sensing
	HOG 28	ø287 mm	ø120...150 mm (through hollow shaft)	1024...2048	<ul style="list-style-type: none"> • Large terminal box, turn by 180° • Option: Plug-in electronics • ATEX II 3 G / 3 D • Redundant sensing






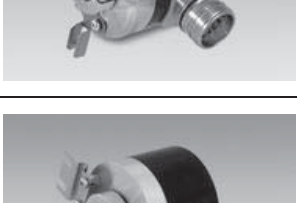

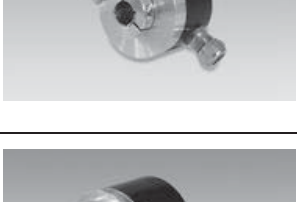
	HOG 11 + ESL 90	ø105 mm	ø16...20 mm (blind hollow shaft) ø17 mm (cone shaft 1:10)	300...5000	<ul style="list-style-type: none"> • Encoder combination with electronic speed switch ESL 90 • Offshore and salt water firm • High protection IP 67 • Redundant sensing • Function control with Enhanced Monitoring System
	HOG 60	ø58 mm	ø8...12 mm (blind hollow shaft)	200...10000	<ul style="list-style-type: none"> • High resistance to shock • High protection IP 65 • ATEX II 3 G / 3 D
	HOG 11 + ESL 93	ø105 mm	ø16...20 mm (blind hollow shaft) ø17 mm (cone shaft 1:10)	300...5000	<ul style="list-style-type: none"> • Encoder combination with electronic speed switch ESL 90 • Offshore and salt water firm • High protection IP 67 • Redundant sensing • Function control with Enhanced Monitoring System
	HOG 70	ø60 mm	ø12...14 mm (blind hollow shaft)	10...10000	<ul style="list-style-type: none"> • ATEX II 3 G / 3 D
	HOG 11 + FSL	ø105 mm	ø16...20 mm (blind hollow shaft) ø17 mm (cone shaft 1:10)	300...5000	<ul style="list-style-type: none"> • Encoder combination with centrifugal switch FSL • Offshore and salt water firm • High protection IP 67 • Redundant sensing • Function control with Enhanced Monitoring System









	HOG 71	ø60 mm	ø12...14 mm (blind hollow shaft)	64...2048	<ul style="list-style-type: none"> • ATEX II 3 G / 3 D
	HOG 11 G	ø105 mm	ø16...20 mm (blind hollow shaft) ø17 mm (cone shaft 1:10)	300...5000	<ul style="list-style-type: none"> • Twin encoder combination with double sensing • High protection IP 67 • Offshore and salt water firm • ATEX II 3G/3D • Redundant sensing • Function control with Enhanced Monitoring System
	HOG 75 K	ø75 mm	ø17 mm (cone shaft 1:10)	250...2500	<ul style="list-style-type: none"> • Very high resistance to vibrations • ATEX II 3 G / 3 D
	HOG 75	ø75 mm	ø12...26 mm (through hollow shaft)	250...2500	<ul style="list-style-type: none"> • Very high resistance to vibrations • ATEX II 3 G / 3 D
	HOG 8	ø86.5 mm	ø10...16 mm (through hollow shaft)	1...5000	<ul style="list-style-type: none"> • Compact, robust die-cast housing
	HOG 86	ø99 mm	ø12...16 mm (blind hollow shaft) ø17 mm (cone shaft 1:10)	500...5000	<ul style="list-style-type: none"> • Function control with Enhanced Monitoring System • ATEX II 3 G / 3 D
	HOG 86E	ø99 mm	ø12...16 mm (blind hollow shaft) ø17 mm (cone shaft 1:10)	500...2500	<ul style="list-style-type: none"> • ATEX II 3 G / 3 D









	HOG 86 M	ø99 mm	ø12...16 mm (blind hollow shaft) ø17 mm (cone shaft 1:10)	500...5000	<ul style="list-style-type: none"> • Function control with Enhanced Monitoring System • Redundant sensing • ATEX II 3 G / 3 D
	HOG 16 + DSLE	ø158 mm	ø20...50 mm (through hollow shaft)	512...2500	<ul style="list-style-type: none"> • Incremental encoder combination with digital speed switch • Programmable for 2 switching speeds and 1 control output
	HOG 16 + DSLR	ø158 mm	ø20...50 mm (through hollow shaft)	512...2500	<ul style="list-style-type: none"> • Incremental encoder combination with digital speed switch • Programmable for 3 switching speeds
	HOG 9	ø97 mm	ø12...16 mm (blind hollow shaft) ø17 mm (cone shaft 1:10)	300...5000	<ul style="list-style-type: none"> • ATEX II 3 G / 3 D • Function control with Enhanced Monitoring System
	HOG 9 G	ø97 mm	ø16 mm (blind hollow shaft) ø17 mm (cone shaft 1:10)	300...5000	<ul style="list-style-type: none"> • Twin encoder combination with double sensing • ATEX II 3G/3D • Function control with Enhanced Monitoring System
	HOGS 100	ø105 mm	ø16 mm (blind hollow shaft) ø17 mm (cone shaft 1:10)	720...5000	<ul style="list-style-type: none"> • Radial terminal box or axial terminal cover • Top-quality SinCos output-signals • ATEX II 3 G / 3 D
	HOGS 100 S	ø105 mm	ø16 mm (blind hollow shaft) ø17 mm (cone shaft 1:10)	1024...5000	<ul style="list-style-type: none"> • SIL2 approval • Radial terminal box or axial terminal cover • Top-quality SinCos output-signals • ATEX II 3 G / 3 D









	HOG 165 + DSL.E	ø165 mm	ø25 mm (through hollow shaft)	512...4096	<ul style="list-style-type: none"> • Incremental encoder combination with digital speed switch • Programmable for 2 switching speeds and 1 control output • ATEX II 3G/3D
	HOGS 14	ø158 mm	ø40...75 mm (through hollow shaft)	1024...5000	<ul style="list-style-type: none"> • Top-quality SinCos output-signals • ATEX II 3 G / 3 D
	HOG 165 + DSL.R	ø165 mm	ø25 mm (through hollow shaft)	512...4096	<ul style="list-style-type: none"> • Incremental encoder combination with digital speed switch • Programmable for 3 switching speeds • ATEX II 3G/3D
	HOGS 151	ø168 mm	ø60...70 mm (through hollow shaft)	1024...5000	<ul style="list-style-type: none"> • ATEX II 3 G / 3 D • Top-quality SinCos output-signals
	HOGS 71	ø60 mm	ø12...14 mm (blind hollow shaft)	1024...5000	<ul style="list-style-type: none"> • ATEX II 3 G / 3 D • Top-quality SinCos output-signals
	HOGS 75 K	ø75 mm	ø17 mm (cone shaft 1:10)	720...5000	<ul style="list-style-type: none"> • Very high resistance to vibrations • ATEX II 3 G / 3 D
	HOGS 75	ø75 mm	ø14...26 mm (through hollow shaft)	720...5000	<ul style="list-style-type: none"> • Very high resistance to vibrations • ATEX II 3 G / 3 D
	HS35F	ø3.15" (ø80 mm)	ø0.375...1" (ø9.525... 25.4 mm) (through hollow shaft isolated)	1024...80000	<ul style="list-style-type: none"> • Industrial standard • Inch dimensions • Very high IP protection • Isolated shaft

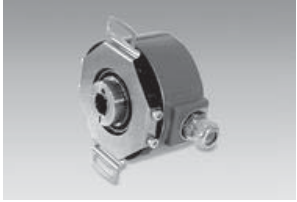







	HS35P - Programmable	ø3.15" (ø80 mm)	ø0.375...1" (ø9.525...25.4 mm) (through hollow shaft isolated)	1...8192	<ul style="list-style-type: none"> • Programmable • Inch dimensions • Very high IP protection • Isolated shaft
	HS35S - Sine	ø3.15" (ø80 mm)	ø0.375...1" (ø9.525...25.4 mm) (through hollow shaft isolated)	1024...5000	<ul style="list-style-type: none"> • Top-quality sine signals • Inch dimensions • Very high IP protection
	ExHS35	ø3.15" (ø80 mm)	ø0.375...1" (ø9.525...25.4 mm) (through hollow shaft isolated)	1024...5000	<ul style="list-style-type: none"> • Intrinsically safe encoder • Inch dimensions • Very high IP protection
	ITD 01 A 4 Y 1	ø24 mm	ø4 mm (blind hollow shaft)	30...1024	<ul style="list-style-type: none"> • Mini encoder
	ITD 01 A 4 Y 4	ø24 mm	ø4 mm (blind hollow shaft)	30...1024	<ul style="list-style-type: none"> • Mini encoder
	ITD 01 B14	ø24 mm	ø4 mm solid shaft	30...1024	<ul style="list-style-type: none"> • Mini encoder
	ITD 2 A 4 Y22	ø58 mm	ø10 mm (blind hollow shaft) ø12 mm (blind hollow shaft) ø14 mm (blind hollow shaft)	2...60	<ul style="list-style-type: none"> • Compact • Industrial standard
	ITD 2 A 4 Y36	ø58 mm	ø10 mm (blind hollow shaft) ø12 mm (blind hollow shaft) ø14 mm (blind hollow shaft)	2...60	<ul style="list-style-type: none"> • Compact • Industrial standard









	ITD 20 A 4	ø58 mm	ø8...14 mm (blind hollow shaft)	50...1024	<ul style="list-style-type: none"> • Compact • Industrial standard
	ITD 20 A 4 Y10	ø58 mm	ø6...16 mm (blind hollow shaft)	50...1024	<ul style="list-style-type: none"> • Encoder with bellhousing • High IP protection
	ITD 20 A 4 Y114	-	ø10 mm (blind hollow shaft) ø12 mm (blind hollow shaft) ø14 mm (blind hollow shaft)	100...2048	<ul style="list-style-type: none"> • Terminal box axial, screw connection sidewise
	ITD 20 A 4 Y120	60 x 72 mm	ø10 mm (through hollow shaft) ø12 mm (through hollow shaft) ø14 mm (through hollow shaft) ø16 mm (through hollow shaft)	200...2048	<ul style="list-style-type: none"> • Compact • High IP protection
	ITD 20 A 4 Y130	ø58 mm	ø12 mm (blind hollow shaft)	50...1024	<ul style="list-style-type: none"> • Electric isolated • High IP protection • Compact
	ITD 20 A 4 Y22	ø58 mm	ø10 mm (blind hollow shaft) ø12 mm (blind hollow shaft) ø14 mm (blind hollow shaft)	50...1024	<ul style="list-style-type: none"> • Compact • High IP protection
	ITD 20 A 4 Y36	ø58 mm	ø10 mm (blind hollow shaft) ø12 mm (blind hollow shaft) ø14 mm (blind hollow shaft)	50...1024	<ul style="list-style-type: none"> • Compact • Industrial standard
	ITD 20 B14	ø58 mm	ø6 mm solid shaft	50...1024	<ul style="list-style-type: none"> • Industrial standard • Synchro flange • High IP protection









	ITD 20 B14 Y 1	ø58 mm	ø6 mm solid shaft	50...1024	<ul style="list-style-type: none"> • Industrial standard • Synchro flange • High IP protection
	ITD 20 B14 Y 9	ø58 mm	ø10 mm solid shaft (clamping flange)	50...1024	<ul style="list-style-type: none"> • Industrial standard • Clamping flange • High IP protection
	ITD 20 B14 Y11	ø58 mm	ø10 mm solid shaft (clamping flange)	50...1024	<ul style="list-style-type: none"> • Industrial standard • Clamping flange • High IP protection
	ITD 21 A 4 Y10	ø58 mm	ø6...16 mm (blind hollow shaft)	1000...10000	<ul style="list-style-type: none"> • Encoder with bellhousing • High resolutions • High IP protection
	ITD 21 A 4 Y109	ø68 mm	ø10 mm (blind hollow shaft) ø12 mm (blind hollow shaft) ø14 mm (blind hollow shaft)	200...6000	<ul style="list-style-type: none"> • Anodised • High resolutions • Very high IP protection
	ITD 21 A 4 Y21	ø58 mm	ø10 mm (blind hollow shaft) ø12 mm (blind hollow shaft) ø14 mm (blind hollow shaft)	200...6000	<ul style="list-style-type: none"> • Compact • High resolutions • High IP protection
	ITD 21 A 4 Y22	ø58 mm	ø10 mm (blind hollow shaft) ø12 mm (blind hollow shaft) ø14 mm (blind hollow shaft)	200...6000	<ul style="list-style-type: none"> • Compact • High resolutions • High IP protection
	ITD 21 A 4 Y36	ø58 mm	ø10 mm (blind hollow shaft) ø12 mm (blind hollow shaft) ø14 mm (blind hollow shaft)	200...6000	<ul style="list-style-type: none"> • Compact • High resolutions • High IP protection








	ITD 21 A 4 Y65	ø68 mm	ø10 mm (through hollow shaft) ø12 mm (through hollow shaft) ø14 mm (through hollow shaft)	200...6000	<ul style="list-style-type: none"> • Stainless steel • High resolutions • High IP protection
	ITD 21 B14	ø58 mm	ø6 mm solid shaft (synchro flange)	1000...10000	<ul style="list-style-type: none"> • Synchro flange • High resolutions • High IP protection
	ITD 21 B14 Y 1	ø58 mm	ø6 mm solid shaft (synchro flange)	1000...10000	<ul style="list-style-type: none"> • Synchro flange • High resolutions • High IP protection
	ITD 21 B14 Y 9	ø58 mm	ø10 mm solid shaft (clamping flange)	1000...6000	<ul style="list-style-type: none"> • Clamping flange • High resolutions • High IP protection
	ITD 21 B14 Y11	ø58 mm	ø10 mm solid shaft (clamping flange)	1000...6000	<ul style="list-style-type: none"> • Clamping flange • High resolutions • High IP protection
	ITD 22 A 4 Y36	ø58 mm	ø10 mm (blind hollow shaft) ø12 mm (blind hollow shaft) ø14 mm (blind hollow shaft)	1024...5000	<ul style="list-style-type: none"> • Top-quality sine signals • Compact
	ITD 23 A 4 Y 2	60 x 72 mm	ø14 mm (through hollow shaft)	128	<ul style="list-style-type: none"> • Compact • Tangential cable output
	ITD 27 A 4 Y15	ø58 mm	ø9...14 mm (through hollow shaft)	1...32	<ul style="list-style-type: none"> • Compact • Magnetic sensing









	ITD 28 A 4	ø58 mm	ø10...14 mm (blind hollow shaft)	50...1024	<ul style="list-style-type: none"> • Encoder redundant • High IP protection
	ITD 4 A 4	ø80 mm	ø10...16 mm (blind hollow shaft)	5...100	<ul style="list-style-type: none"> • Industrial standard
	ITD 4 B10	ø82 mm	ø11 mm solid shaft	5...60	<ul style="list-style-type: none"> • EURO flange B10 • Industrial standard • High IP protection
	ITD 4 B10 Y 1	ø82 mm	ø11 mm solid shaft	5...60	<ul style="list-style-type: none"> • EURO flange B10 • Industrial standard • High IP protection
	ITD 4 B10 Y 4	ø82 mm	ø11 mm solid shaft	5...60	<ul style="list-style-type: none"> • EURO flange B10 • Dual bearing • High IP protection
	ITD 4 B10 Y 5	ø82 mm	ø11 mm solid shaft	5...60	<ul style="list-style-type: none"> • EURO flange B10 • Industrial standard • High IP protection
	ITD 40 A 4	ø80 mm	ø10...16 mm (blind hollow shaft)	200...2048	<ul style="list-style-type: none"> • Industrial standard
	ITD 40 A 4 Y109	ø80 mm	ø10...16 mm (blind hollow shaft)	200...2048	<ul style="list-style-type: none"> • High IP protection







	ITD 40 A 4 Y138	ø80 mm	ø14 mm (through hollow shaft)	200...2048	<ul style="list-style-type: none"> • High resistance to shock and vibrations • Electric isolated
	ITD 40 A 4 Y141	ø89 mm	ø20 mm (blind hollow shaft) ø22 mm (blind hollow shaft) ø25 mm (blind hollow shaft) ø27 mm (blind hollow shaft)	200...2048	<ul style="list-style-type: none"> • Stainless steel • Large hollow shaft • Very high IP protection
	ITD 40 A 4 Y22	ø80 mm	ø17...27 mm (through hollow shaft)	200...2048	<ul style="list-style-type: none"> • Large hollow shaft
	ITD 40 A 4 Y79	ø80 mm	ø20...27 mm (through hollow shaft)	200...2048	<ul style="list-style-type: none"> • Large hollow shaft
	ITD 40 B10	ø82 mm	ø11 mm solid shaft	200...2048	<ul style="list-style-type: none"> • EURO flange B10 • Industrial standard • High IP protection
	ITD 40 B10 Y 1	ø82 mm	ø11 mm solid shaft	200...2048	<ul style="list-style-type: none"> • EURO flange B10 • Industrial standard • High IP protection
	ITD 40 B10 Y 4	ø82 mm	ø11 mm solid shaft	200...2048	<ul style="list-style-type: none"> • EURO flange B10 • Dual bearing • High IP protection
	ITD 40 B10 Y 5	ø82 mm	ø11 mm solid shaft	200...2048	<ul style="list-style-type: none"> • EURO flange B10 • Dual bearing • Terminal box axial, screw connection sidewise








	ITD 41 A 4	ø80 mm	ø10...16 mm (blind hollow shaft)	2000...10000	<ul style="list-style-type: none"> • Industrial standard • High resolutions • High IP protection
	ITD 41 A 4 Y 1	ø80 mm	ø10...16 mm (blind hollow shaft)	2000...10000	<ul style="list-style-type: none"> • High resolutions • High IP protection
	ITD 41 A 4 Y 2	ø80 mm	ø10...16 mm (through hollow shaft)	2000...10000	<ul style="list-style-type: none"> • High resolutions • High IP protection
	ITD 41 A 4 Y100	ø80 mm	ø20 mm (through hollow shaft) ø25 mm (through hollow shaft)	2000...10000	<ul style="list-style-type: none"> • Large hollow shaft • Electric isolated • High resolutions
	ITD 41 A 4 Y117	ø80 mm	ø14 mm (through hollow shaft)	2000...10000	<ul style="list-style-type: none"> • Electric isolated • High resolutions • High IP protection
	ITD 41 A 4 Y141	ø89 mm	ø20...27 mm (blind hollow shaft)	2000...10000	<ul style="list-style-type: none"> • Stainless steel • Very high IP protection • High resolutions
	ITD 41 A 4 Y22	ø80 mm	ø17...27 mm (through hollow shaft)	2000...10000	<ul style="list-style-type: none"> • Large hollow shaft • High resolutions • High IP protection
	ITD 41 A 4 Y68	ø80 mm	ø28...30 mm (through hollow shaft)	1024...10000	<ul style="list-style-type: none"> • Large hollow shaft • High resolutions

	ITD 41 A 4 Y70	ø80 mm	ø28...30 mm (through hollow shaft)	1024...10000	<ul style="list-style-type: none"> • Large hollow shaft • High resolutions
	ITD 41 A 4 Y79	ø80 mm	ø20 mm (through hollow shaft) ø22 mm (through hollow shaft) ø25 mm (through hollow shaft) ø27 mm (through hollow shaft)	2000...10000	<ul style="list-style-type: none"> • Large hollow shaft • High resolutions
	ITD 41 B10	ø82 mm	ø11 mm solid shaft	1000...6000	<ul style="list-style-type: none"> • EURO flange B10 • Industrial standard • High resolutions
	ITD 41 B10 Y 1	ø82 mm	ø11 mm solid shaft	1000...6000	<ul style="list-style-type: none"> • EURO flange B10 • Industrial standard • High IP protection
	ITD 41 B10 Y 4	ø82 mm	ø11 mm solid shaft	1000...6000	<ul style="list-style-type: none"> • EURO flange B10 • Dual bearing • High IP protection
	ITD 41 B10 Y 5	ø82 mm	ø11 mm solid shaft	1000...6000	<ul style="list-style-type: none"> • EURO flange B10 • Dual bearing • High resolutions • Terminal box axial, screw connection sidewise
	ITD 42 A 4	ø80 mm	ø10...16 mm (blind hollow shaft)	1024...2048	<ul style="list-style-type: none"> • Top-quality sine signals
	ITD 42 A 4 Y141	ø89 mm	ø20 mm (blind hollow shaft) ø27 mm (blind hollow shaft) ø25 mm (blind hollow shaft) ø22 mm (blind	1024...2048	<ul style="list-style-type: none"> • Stainless steel • Very high IP protection • Top-quality sine signals

			hollow shaft)		
	ITD 42 A 4 Y79	ø80 mm	ø20 mm (through hollow shaft) ø22 mm (through hollow shaft) ø25 mm (through hollow shaft) ø27 mm (through hollow shaft)	1024...2048	<ul style="list-style-type: none"> • Top-quality sine signals • Large hollow shaft
	ITD61H00	ø120 mm	ø30...50 mm (through hollow shaft)	1024...10000	<ul style="list-style-type: none"> • Large hollow shaft • Stainless steel • Flat design
	ITD 70 A 4 Y 2	ø150 mm	ø38...65 mm (through hollow shaft)	1000...2500	<ul style="list-style-type: none"> • Large hollow shaft
	ITD 70 A 4 Y 7	ø150 mm	ø40...65 mm (through hollow shaft)	1000...2500	<ul style="list-style-type: none"> • Large hollow shaft
	ITD 70 A 4 Y 9	ø150 mm	ø40...65 mm (through hollow shaft)	1000...2500	<ul style="list-style-type: none"> • Large hollow shaft
	ITD21H00	ø58 mm	ø10 mm (through hollow shaft) ø12 mm (through hollow shaft) ø14 mm (through hollow shaft)	100...80000	<ul style="list-style-type: none"> • Space-saving installation • Flexible cable concept
	ITD21H00 HT	ø58 mm	ø10 mm (through hollow shaft) ø12 mm (through hollow shaft) ø14 mm (through hollow shaft)	100...8192	<ul style="list-style-type: none"> • Space-saving installation • Flexible cable concept • Extended operating temperature



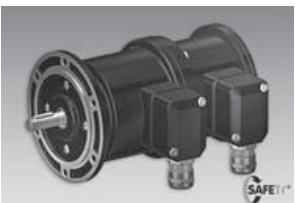
	ITD22H00	ø58 mm	ø10 mm (through hollow shaft) ø12 mm (through hollow shaft) ø14 mm (through hollow shaft)	1024...2048	<ul style="list-style-type: none"> • Top-quality sine signals • Space-saving installation • Flexible cable concept
	ITD22H00 SIL	ø58 mm	ø10 mm (through hollow shaft) ø12 mm (through hollow shaft) ø14 mm (through hollow shaft)	1024...2048	<ul style="list-style-type: none"> • SIL2 approval • Top-quality sine signals • Space-saving installation • Flexible cable concept
	ITD21H01	ø58 mm	ø14 mm (through hollow shaft)	100...80000	<ul style="list-style-type: none"> • Space-saving installation • Flexible cable concept
	ITD21H01 HT	ø58 mm	ø14 mm (through hollow shaft)	100...8192	<ul style="list-style-type: none"> • Space-saving installation • Flexible cable concept
	MA20	ø40 mm	ø6 mm solid shaft	100...25000	<ul style="list-style-type: none"> • Programmable via HEX-switch
	OG 6	ø58 mm	ø6 mm solid shaft	100...512	<ul style="list-style-type: none"> • Solid shaft ø6 mm • Synchro flange
	OG 60	ø58 mm	ø6 mm solid shaft	10...10000	<ul style="list-style-type: none"> • Solid shaft ø6 mm • Synchro flange
	OG 71	ø58 mm	ø6 mm solid shaft	100...1024	<ul style="list-style-type: none"> • Solid shaft ø6 mm • High resistance to shock • ATEX II 3 G / 3 D

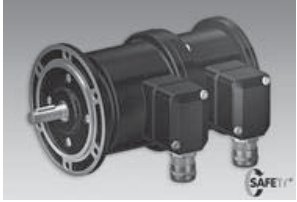
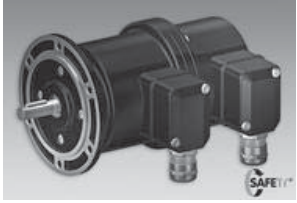
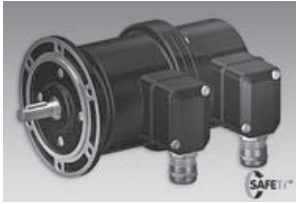
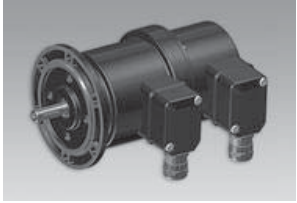
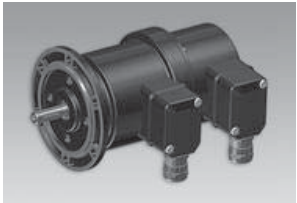


	OG 8	ø115 mm	ø11 mm solid shaft	1...5000	<ul style="list-style-type: none"> • Solid shaft ø11 mm • EURO flange B10
	OG 9	ø115 mm	ø11 mm solid shaft	25...5000	<ul style="list-style-type: none"> • Solid shaft ø11 mm • EURO flange B10 • Operating temperature up to +100 °C • ATEX II 3 G / 3 D
	OGS 71	ø58 mm	ø6 mm solid shaft	1024...5000	<ul style="list-style-type: none"> • ATEX II 3 G / 3 D
	POG 10	ø115 mm	ø11 mm solid shaft	300...5000	<ul style="list-style-type: none"> • EURO flange B10 • Encoder with solid shaft ø11 mm • Radial terminal box • ATEX II 3 G / 3 D • Redundant sensing • Function control with Enhanced Monitoring System
	POG 11	ø115 mm	ø11 mm solid shaft	300...5000	<ul style="list-style-type: none"> • Very high protection IP 67 • Offshore and salt water firm • Radial terminal box • ATEX II 3 G / 3 D • Redundant sensing • Function control with Enhanced Monitoring System
	POG 86	ø115 mm	ø11 mm solid shaft	500...5000	<ul style="list-style-type: none"> • Encoder with solid shaft ø11 mm • EURO flange B10 • ATEX II 3 G / 3 D • Function control with Enhanced





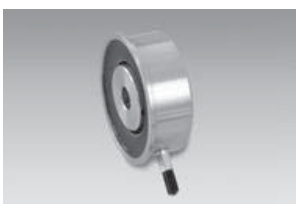



					Monitoring System
	POG 86E	ø115 mm	ø11 mm solid shaft	500...5000	<ul style="list-style-type: none"> • Encoder with solid shaft ø11 mm • EURO flange B10 • ATEX II 3 G / 3 D • Function control with Enhanced Monitoring System
	POG 9	ø115 mm	ø11 mm solid shaft	300...5000	<ul style="list-style-type: none"> • Encoder with solid shaft ø11 mm • EURO flange B10 • ATEX II 3 G / 3 D • Function control with Enhanced Monitoring System
	POG 90	ø115 mm	ø11 mm solid shaft	1024...10000	<ul style="list-style-type: none"> • ATEX II 3 G / 3 D
	POGS 90	ø115 mm	ø11 mm solid shaft	720...5000	<ul style="list-style-type: none"> • ATEX II 3 G / 3 D
	TIL	60 x 72 mm	ø10 mm (through hollow shaft) ø12 mm (through hollow shaft) ø14 mm (through hollow shaft) ø16 mm (through hollow shaft)	100...2048	<ul style="list-style-type: none"> • Tangential cable output
	TIL Y 1	60 x 72 mm	ø12 mm (blind hollow shaft)	100...2048	<ul style="list-style-type: none"> • Tangential cable output • High IP protection
	X 700 - incremental	ø70 mm	ø10 mm solid shaft (clamping flange)	5...5000	<ul style="list-style-type: none"> • Ex II 2D/2G (ATEX)








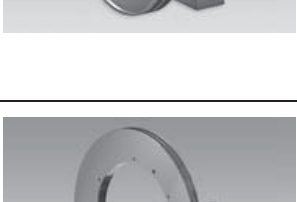
	POG 90 + ESL 90	ø115 mm	ø11 mm solid shaft	1024...10000	<ul style="list-style-type: none"> • Encoder combination with electronic speed switch ESL 90 • EURO flange B10 or foot mounting
	POG 90 + ESL 93	ø115 mm	ø11 mm solid shaft	1024...10000	<ul style="list-style-type: none"> • Encoder combination with electronic speed switch ESL 93 • EURO flange B10 or foot mounting
	OG 60 + GT 5	ø58 mm	ø6 mm solid shaft	10...10000	<ul style="list-style-type: none"> • Encoder combination with tachogenerator • Connector with metal mating connector • Synchro flange • Recognition of sense of rotation
	POG 10 + DSL.E	ø115 mm	ø11 mm solid shaft	512...2500	<ul style="list-style-type: none"> • Incremental encoder combination with digital speed switch • Programmable for 2 switching speeds and 1 control output • ATEX II 3G/3D
	POG 90 + FSL	ø115 mm	ø11 mm solid shaft	1024...10000	<ul style="list-style-type: none"> • Encoder combination with centrifugal switch FSL • EURO flange B10
	POG 10 + DSL.R	ø115 mm	ø11 mm solid shaft	512...2500	<ul style="list-style-type: none"> • Incremental encoder combination with digital speed switch • Programmable for 3 switching speeds • ATEX II 3G/3D
	POG 10 + ESL 90	ø115 mm	ø11 mm solid shaft	300...5000	<ul style="list-style-type: none"> • Encoder combination with electronic speed switch ESL 90 • EURO flange B10 or foot mounting • Redundant sensing


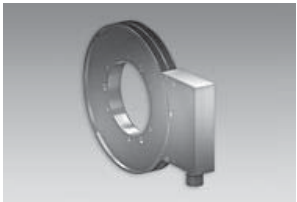
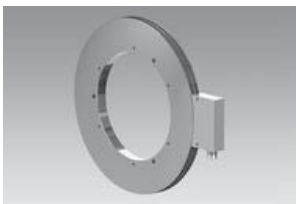



					<ul style="list-style-type: none"> • Function control with Enhanced Monitoring System
	POG 10 + ESL 93	ø115 mm	ø11 mm solid shaft	300...5000	<ul style="list-style-type: none"> • Encoder combination with electronic speed switch ESL 93 • EURO flange B10 or foot mounting • Redundant sensing • Function control with Enhanced Monitoring System
	POG 10 + FSL	ø115 mm	ø11 mm solid shaft	300...5000	<ul style="list-style-type: none"> • Encoder combination with centrifugal switch FSL • EURO flange B10 or foot mounting • Redundant sensing • Function control with Enhanced Monitoring System
	POG 10 G	ø115 mm	ø11 mm solid shaft	300...5000	<ul style="list-style-type: none"> • Twin encoder combination with double sensing • EURO flange B10 • ATEX II 3G/3D • Redundant sensing • Function control with Enhanced Monitoring System
	POG 11 + ESL 90	ø115 mm	ø11 mm solid shaft	300...5000	<ul style="list-style-type: none"> • Encoder combination with electronic speed switch ESL 90 • Offshore and salt water firm • High protection IP 67 • EURO flange B10 or foot mounting • Redundant sensing • Function control with Enhanced Monitoring System




	POG 11 + ESL 93	ø115 mm	ø11 mm solid shaft	300...5000	<ul style="list-style-type: none"> • Encoder combination with electronic speed switch ESL 93 • Offshore and salt water firm • High protection IP 67 • EURO flange B10 or foot mounting • Redundant sensing • Function control with Enhanced Monitoring System
	POG 11 + FSL	ø115 mm	ø11 mm solid shaft	300...5000	<ul style="list-style-type: none"> • Encoder combination with centrifugal switch FSL • Offshore and salt water firm • High protection IP 67 • EURO flange B10 or foot mounting • Redundant sensing • Function control with Enhanced Monitoring System
	POG 11 G	ø115 mm	ø11 mm solid shaft	300...5000	<ul style="list-style-type: none"> • Twin encoder with double sensing • High protection IP 67 • Offshore and salt water firm • EURO flange B10 • ATEX II 3G/3D • Redundant sensing • Function control EMS
	POG 9 + ESL 90	ø115 mm	ø11 mm solid shaft	300...5000	<ul style="list-style-type: none"> • Encoder combination with electronic speed switch ESL 90 • EURO flange B10 • Function control with Enhanced Monitoring System





	POG 9 + ESL 93	ø115 mm	ø11 mm solid shaft	300...5000	<ul style="list-style-type: none"> Encoder combination with electronic speed switch ESL 93 EURO flange B10 Function control with Enhanced Monitoring System
	POG 86 + FSL	ø115 mm	ø11 mm solid shaft	500...5000	<ul style="list-style-type: none"> Encoder combination with centrifugal switch FSL EURO flange B10 Function control with Enhanced Monitoring System
	POG 9 + FSL	ø115 mm	ø11 mm solid shaft	300...5000	<ul style="list-style-type: none"> Encoder combination with centrifugal switch FSL EURO flange B10 Function control with Enhanced Monitoring System
	POG 86 G	ø115 mm	ø11 mm solid shaft	500...5000	<ul style="list-style-type: none"> Twin encoder combination with double sensing ATEX II 3G/3D Function control with Enhanced Monitoring System
	POG 9 G	ø115 mm	ø11 mm solid shaft	300...5000	<ul style="list-style-type: none"> Twin encoder combination with double sensing ATEX II 3G/3D Function control with Enhanced Monitoring System
	MIL10	-	-	-	<ul style="list-style-type: none"> Output signals A 90° B or A 90° B +R Protection IP 67
	MIR10	-	ø6...43.5 mm (through hollow shaft)	320...4096	<ul style="list-style-type: none"> Max. 4096 pulses per revolution Output signals A 90° B or A 90° B +R Protection IP 67





	MIR 3000F - HDmag flex	-	ø300...3183 mm (through hollow shaft)	512...131072512...1638 4	<ul style="list-style-type: none"> • Integrated signal processing • Magnetic sensing • Protection IP 67 • Square-wave or sine signals
	MIR 350A - HDmag flex	-	ø90...300 mm (through hollow shaft)	512...131072512...1638 4	<ul style="list-style-type: none"> • Integrated signal processing • Magnetic sensing • Protection IP 67 • Square-wave or sine signals
	MDFK 08 - push-pull	-	ø6...43.5 mm (through hollow shaft)	256...1024	<ul style="list-style-type: none"> • Resolution up to 1024 pulses • Output signals A 90° B or A 90° B +N • Protection IP 67
	MDFK 08 - RS422	-	ø6...43.5 mm (through hollow shaft)	256...1024	<ul style="list-style-type: none"> • Resolution up to 1024 pulses • Output signals A 90° B or A 90° B +N • Protection IP 67
	ITD 27 A 4 Y27	ø58 mm	ø10...16 mm (blind hollow shaft)	1...32	<ul style="list-style-type: none"> • Magnetic sensing • Protection IP 67
	ITD 67 A 4 Y 9	-	ø10...45 mm (through hollow shaft)	20...50	<ul style="list-style-type: none"> • Magnetic sensing • Flat design • Protection IP 67
	ITD 75 A 4	ø150 mm	ø60...85 mm (through hollow shaft)	1000...2500	<ul style="list-style-type: none"> • Large hollow shaft • Incremental encoder without bearings
	ITD49H00	-	ø9...28 mm (through hollow shaft)	64...2048	<ul style="list-style-type: none"> • Square-wave signals • Flat design • Protection IP 67






	ITD49H00 sine	-	ø9...28 mm (through hollow shaft)	64	<ul style="list-style-type: none"> • Flat design • Protection IP 67
	ITD69H00	-	ø40...65 mm (through hollow shaft)	128...4096	<ul style="list-style-type: none"> • Square-wave signals • Flat design • Protection IP 67
	ITD69H00 sine	-	ø40...65 mm (through hollow shaft)	128	<ul style="list-style-type: none"> • Flat design • Protection IP 67
	ITD89H00	-	ø70...140 mm (through hollow shaft)	256...8192	<ul style="list-style-type: none"> • Very high IP protection • Square-wave signals • Flat design
	ITD89H00 sine	-	ø70...140 mm (through hollow shaft)	256	<ul style="list-style-type: none"> • Very high IP protection • Flat design
	MHGE 100 - HDmag	ø99,9 mm	ø16...80 mm (through hollow shaft)	64...409664	<ul style="list-style-type: none"> • Max. 4096 pulses per revolution • Square-wave or sine signals • Protection IP 67 • DNV approval as option
	MHGE 200 - HDmag	ø201.7 mm	ø50...180 mm (through hollow shaft)	128...8192128	<ul style="list-style-type: none"> • Max. 8192 pulses per revolution • Square-wave or sine signals • Protection IP 67 • DNV approval as option
	MHGE 400 - HDmag	ø405.4 mm	ø70...340 mm (through hollow shaft)	256...16384256	<ul style="list-style-type: none"> • Max. 16384 pulses per revolution • Square-wave or sine signals • Protection IP 67 • DNV approval as





					option
	MHGE 800 - HDmag	ø813 mm	ø650...740 mm (through hollow shaft)	512...32768512	<ul style="list-style-type: none"> • Max. 32768 pulses per revolution • Square-wave or sine signals • Protection IP 67 • DNV approval as option
	MHGP 100 - HDmag	ø99,9 mm	ø16...80 mm (through hollow shaft)	64...13107264...8192	<ul style="list-style-type: none"> • Max. 131072 pulses per revolution • Square-wave or sine signals • Protection IP 67
	MHGP 200 - HDmag	ø201.7 mm	ø50...180 mm (through hollow shaft)	128...262144128...16384	<ul style="list-style-type: none"> • Max. 262144 pulses per revolution • Square-wave or sine signals • Protection IP 67
	MHGP 400 - HDmag	ø405.4 mm	ø70...340 mm (through hollow shaft)	256...524288256...32768	<ul style="list-style-type: none"> • Max. 524288 pulses per revolution • Square-wave or sine signals • Protection IP 67
	HG 6	ø58 mm	ø12...16 mm (blind hollow shaft)	100...512	<ul style="list-style-type: none"> • Fit for high operating speed • Max. 512 pulses per revolution
	HG 16	ø158 mm	ø20...45 mm (through hollow shaft)	250...2048	<ul style="list-style-type: none"> • Robust and wearless • Fit for high operating speed • Max. 2048 pulses per revolution
	HG 18	ø186 mm	ø65...85 mm (through hollow shaft)	250...2500	<ul style="list-style-type: none"> • Robust and wearless • Fit for high operating speed • Max. 2500 pulses per revolution






	HG 22	ø227 mm	ø90...120 mm (through hollow shaft)	720...4000	<ul style="list-style-type: none"> • Robust and wearless • Fit for high operating speed • Max. 4000 pulses per revolution
	HG 21	ø240 mm	ø85...95 mm (through hollow shaft)	2500	<ul style="list-style-type: none"> • Robust and wearless • Fit for high operating speed • 2500 pulses per revolution
	HG 211	ø210 mm	ø85...95 mm (through hollow shaft)	2500	<ul style="list-style-type: none"> • Robust and wearless • Fit for high operating speed • Resolution 2500 pulses
Грузовые					
	AMG 71	ø60 mm	ø6 mm solid shaft	ST 8192 / 13 bit MT 4096 / 12 bit	<ul style="list-style-type: none"> • ATEX II 3 G / 3 D
	AMG 81	ø115 mm	ø11 mm solid shaft	ST 8192 / 13 bit MT 4096 / 12 bit	<ul style="list-style-type: none"> • ATEX II 3 G / 3 D • SSI, Profibus, CANopen®
	AMG 11	ø115 mm	ø11 mm solid shaft	ST 8192 / 13 bit MT ≤65536 / 16 bit	<ul style="list-style-type: none"> • ATEX II 3 G / 3 D • SSI, Profibus, CANopen®, DeviceNet, PROFINET • Multiturn sensing with microGen technologie • Without gears and battery • Special protection against corrosion
	AMG 11 + FSL	ø115 mm	ø11 mm solid shaft	ST 8192 / 13 bit MT ≤65536 / 16 bit	<ul style="list-style-type: none"> • Encoder combination with centrifugal switch FSL • SSI, Profibus, CANopen®,





					<p>DeviceNet</p> <ul style="list-style-type: none"> • Multiturn sensing with microGen technologie • Without gears and battery • EURO flange B10 • Special protection against corrosion
	HMG 11	ø122 mm	<p>ø16...20 mm (blind hollow shaft) ø17 mm (cone shaft 1:10)</p>	<p>ST 8192 / 13 bit MT ≤65536 / 16 bit</p>	<ul style="list-style-type: none"> • ATEX II 3G/3D • SSI, Profibus, CANopen®, DeviceNet, PROFINET • Multiturn sensing with microGen technologie • Without gears and battery • Special protection against corrosion
	HMG10-B - SSI	ø105 mm	<p>ø16...20 mm (blind hollow shaft) ø17 mm (cone shaft 1:10)</p>	<p>ST 1048576 / 20 bit MT 1048576 / 20 bit</p>	<ul style="list-style-type: none"> • SSI • Protection against corrosion C5-M • Integrated speed switch • Multiturn sensing with Energy Harvesting technologie • Without gears and battery
	HMG10-T - SSI	ø105 mm	<p>ø16...20 mm (through hollow shaft)</p>	<p>ST 1048576 / 20 bit MT 1048576 / 20 bit</p>	<ul style="list-style-type: none"> • SSI • Protection against corrosion C5-M • Integrated speed switch • Multiturn sensing with Energy Harvesting technologie • Without gears and battery
	HMG10-B - CANopen®	ø105 mm	<p>ø16...20 mm (blind hollow shaft) ø17 mm (cone shaft 1:10)</p>	<p>ST 8192 / 13 bit MT 65536 / 16 bit</p>	<ul style="list-style-type: none"> • CANopen® • Protection against corrosion C5-M • Integrated speed switch • Multiturn sensing with Energy Harvesting technologie





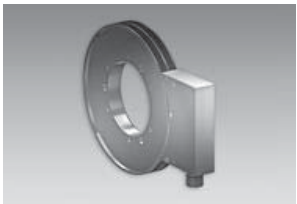
					<ul style="list-style-type: none"> • Without gears and battery
	HMG10-B - DeviceNet	ø105 mm	ø16...20 mm (blind hollow shaft) ø17 mm (cone shaft 1:10)	ST 8192 / 13 bit MT 65536 / 16 bit	<ul style="list-style-type: none"> • DeviceNet • Protection against corrosion C5-M • Integrated speed switch • Multiturn sensing with Energy Harvesting technologie • Without gears and battery
	HMG10-B - Profibus DP	ø105 mm	ø16...20 mm (blind hollow shaft) ø17 mm (cone shaft 1:10)	ST 8192 / 13 bit MT 65536 / 16 bit	<ul style="list-style-type: none"> • Profibus-DPV0 or DPV2 • Protection against corrosion C5-M • Integrated speed switch • Multiturn sensing with Energy Harvesting technologie • Without gears and battery
	HMG10-T - CANopen®	ø105 mm	ø16...20 mm (through hollow shaft)	ST 8192 / 13 bit MT 65536 / 16 bit	<ul style="list-style-type: none"> • CANopen® • Protection against corrosion C5-M • Integrated speed switch • Multiturn sensing with Energy Harvesting technologie • Without gears and battery
	HMG10-T - DeviceNet	ø105 mm	ø16...20 mm (through hollow shaft)	ST 8192 / 13 bit MT 65536 / 16 bit	<ul style="list-style-type: none"> • DeviceNet • Protection against corrosion C5-M • Integrated speed switch • Multiturn sensing with Energy Harvesting technologie • Without gears and battery

	HMG10-T - Profibus DP	ø105 mm	ø16...20 mm (through hollow shaft)	ST 8192 / 13 bit MT 65536 / 16 bit	<ul style="list-style-type: none"> • Profibus-DPV0 or DPV2 • Protection against corrosion C5-M • Integrated speed switch • Multiturn sensing with Energy Harvesting technologie • Without gears and battery
	HMG10-B EtherCAT	ø105 mm	ø16...20 mm (blind hollow shaft) ø17 mm (cone shaft 1:10)	ST 8192 / 13 bit MT 65536 / 16 bit	<ul style="list-style-type: none"> • EtherCAT • Protection against corrosion C5-M • Integrated speed switch • Multiturn sensing with Energy Harvesting technologie • Without gears and battery
	HMG10-B EtherNet/IP	ø105 mm	ø16...20 mm (blind hollow shaft) ø17 mm (cone shaft 1:10)	ST 8192 / 13 bit MT 65536 / 16 bit	<ul style="list-style-type: none"> • EtherNet/IP • Protection against corrosion C5-M • Integrated speed switch • Multiturn sensing with Energy Harvesting technologie • Without gears and battery
	HMG10-B PROFINET	ø105 mm	ø16...20 mm (blind hollow shaft) ø17 mm (cone shaft 1:10)	ST 8192 / 13 bit MT 65536 / 16 bit	<ul style="list-style-type: none"> • PROFINET • Protection against corrosion C5-M • Integrated speed switch • Multiturn sensing with Energy Harvesting technologie • Without gears and battery
	HMG10-T EtherCAT	ø105 mm	ø16...20 mm (through hollow shaft)	ST 8192 / 13 bit MT 65536 / 16 bit	<ul style="list-style-type: none"> • EtherCAT • Protection against corrosion C5-M • Integrated speed switch • Multiturn sensing with Energy

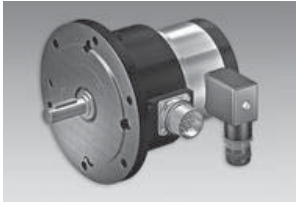





					Harvesting technologie • Without gears and battery
	HMG10-T EtherNet/IP	ø105 mm	ø16...20 mm (through hollow shaft)	ST 8192 / 13 bit MT 65536 / 16 bit	• EtherNet/IP • Protection against corrosion C5-M • Integrated speed switch • Multiturn sensing with Energy Harvesting technologie • Without gears and battery
	HMG10-T PROFINET	ø105 mm	ø16...20 mm (through hollow shaft)	ST 8192 / 13 bit MT 65536 / 16 bit	• PROFINET • Protection against corrosion C5-M • Integrated speed switch • Multiturn sensing with Energy Harvesting technologie • Without gears and battery
	PMG10 - SSI	ø115 mm	ø11 mm solid shaft	ST 1048576 / 20 bit MT 1048576 / 20 bit	• SSI • Protection against corrosion C5-M • Integrated speed switch • Multiturn sensing with Energy Harvesting technologie • Without gears and battery
	PMG10 - CANopen®	ø115 mm	ø11 mm solid shaft	ST 8192 / 13 bit MT 65536 / 16 bit	• CANopen® • Protection against corrosion C5-M • Integrated speed switch • Multiturn sensing with Energy Harvesting technologie • Without gears and battery







	PMG10 - DeviceNet	ø115 mm	ø11 mm solid shaft	ST 8192 / 13 bit MT 65536 / 16 bit	<ul style="list-style-type: none"> • DeviceNet • Protection against corrosion C5-M • Integrated speed switch • Multiturn sensing with Energy Harvesting technologie • Without gears and battery
	PMG10 - Profibus DP	ø115 mm	ø11 mm solid shaft	ST 8192 / 13 bit MT 65536 / 16 bit	<ul style="list-style-type: none"> • Profibus-DPV0 or DPV2 • Protection against corrosion C5-M • Integrated speed switch • Multiturn sensing with Energy Harvesting technologie • Without gears and battery
	PMG10 - EtherCAT	ø115 mm	ø11 mm solid shaft	ST 8192 / 13 bit MT 65536 / 16 bit	<ul style="list-style-type: none"> • EtherCAT • Protection against corrosion C5-M • Integrated speed switch • Multiturn sensing with Energy Harvesting technologie • Without gears and battery
	PMG10 - EtherNet/IP	ø115 mm	ø11 mm solid shaft	ST 8192 / 13 bit MT 65536 / 16 bit	<ul style="list-style-type: none"> • EtherNet/IP • Protection against corrosion C5-M • Integrated speed switch • Multiturn sensing with Energy Harvesting technologie • Without gears and battery
	PMG10 - PROFINET	ø115 mm	ø11 mm solid shaft	ST 8192 / 13 bit MT 65536 / 16 bit	<ul style="list-style-type: none"> • PROFINET • Protection against corrosion C5-M • Integrated speed switch • Multiturn sensing with Energy







					Harvesting technologie • Without gears and battery
	HMG 11 + ESL 90	ø122 mm	ø16...20 mm (blind hollow shaft) ø17 mm (cone shaft 1:10)	ST 8192 / 13 bit MT ≤65536 / 16 bit	• Encoder combination with electronic speed switch ESL • SSI, Profibus, CANopen®, DeviceNet • Multiturn sensing with microGen technologie • Without gears and battery • Special protection against corrosion
	HMG 11 + ESL 93	ø122 mm	ø16...20 mm (blind hollow shaft) ø17 mm (cone shaft 1:10)	ST 8192 / 13 bit MT ≤65536 / 16 bit	• Encoder combination with electronic speed switch ESL • SSI, Profibus, CANopen®, DeviceNet • Multiturn sensing with microGen technologie • Without gears and battery • Special protection against corrosion
	HMG 11 + FSL	ø122 mm	ø16...20 mm (blind hollow shaft) ø17 mm (cone shaft 1:10)	ST 8192 / 13 bit MT ≤65536 / 16 bit	• Encoder combination with centrifugal switch FSL • SSI, Profibus, CANopen®, DeviceNet • Multiturn sensing with microGen technologie • Without gears and battery • Special protection against corrosion
	HMG 161	ø160 mm	ø38...70 mm (through hollow shaft)	ST 8192 / 13 bit MT ≤65536 / 16 bit	• ATEX II 3 G / 3 D • SSI, Profibus, CANopen®, DeviceNet • Multiturn sensing

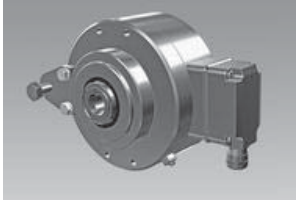





					<p>with microGen technologie</p> <ul style="list-style-type: none"> • Without gears and battery • Special protection against corrosion
	MQR 3000F - HDmag flex	-	ø300...3183 mm (through hollow shaft)	-	<ul style="list-style-type: none"> • "Quasi-absolut", i. e. providing a valid absolute position only after initialization • Integrated signal processing • SSI, resolution up to 20 bit • Magnetic sensing • Protection IP 67 • Incremental outputs as option
	MQR 350A - HDmag flex	-	ø90...300 mm (through hollow shaft)	-	<ul style="list-style-type: none"> • "Quasi-absolut", i. e. providing a valid absolute position only after initialization • Integrated signal processing • SSI, resolution up to 20 bit • Magnetic sensing • Protection IP 67 • Incremental outputs as option
	MHAD 50 - HDmag	-	ø30 mm (through hollow shaft)	-	<ul style="list-style-type: none"> • Resolution up to 16 bit • Protection IP 67 • SSI, CANopen® • Incremental outputs as option
	MHAP 100 - HDmag	ø101.3 mm	ø16...80 mm (through hollow shaft)	-	<ul style="list-style-type: none"> • Resolution up to 17 bit • Protection IP 67 • SSI • Additional incremental output
	MHAP 200 - HDmag	ø203.1 mm	ø50...180 mm (through hollow shaft)	-	<ul style="list-style-type: none"> • Resolution up to 17 bit • Protection IP 67 • SSI • Additional incremental output






	MHAP 400 - HDmag	ø406.8 mm	ø70...340 mm (through hollow shaft)	-	<ul style="list-style-type: none"> • Resolution up to 17 bit • Protection IP 67 • SSI • Additional incremental output
	AG 14	ø139 mm	ø70 mm (through hollow shaft)	250...2500	<ul style="list-style-type: none"> • Attached encoder • Short overall length • Large through hollow shaft
	ExG25	2.5 x 2.5" (63.5 x 63.5 mm) ø2.283" (ø58 mm)	ø0.375" (ø9.52 mm) solid shaft	5...6000	<ul style="list-style-type: none"> • Square flange • Inch dimensions • MIL connector
	EEx HOG 161	ø160 mm	ø30...70 mm (through hollow shaft)	250...2500	<ul style="list-style-type: none"> • ATEX II 2 G • IECEx approval
	EEx OG 9	ø115 mm	ø11 mm solid shaft	25...5000	<ul style="list-style-type: none"> • ATEX II 2 G • IECEx approval
	EEx OG 9 S	ø115 mm	ø11 mm solid shaft	1024...2048	<ul style="list-style-type: none"> • ATEX II 2 G • IECEx approval
	FOG 9 + GT 7.08	ø115 mm	ø11 mm solid shaft	100...5000	<ul style="list-style-type: none"> • Encoder combination with tachogenerator • Connector with metal mating connector • EURO flange B10 • High response speed
	FOG 9	ø115 mm	ø10...11 mm solid shaft	100...5000	<ul style="list-style-type: none"> • Flange connector with metal mating connector • EURO flange B10 • ATEX II 3 G / 3 D







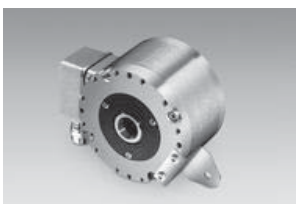
					<ul style="list-style-type: none"> • Function control with Enhanced Monitoring System
	FOG 9 + GT 7.16	ø115 mm	ø11 mm solid shaft	100...5000	<ul style="list-style-type: none"> • Encoder combination with tachogenerator • Connector with metal mating connector • EURO flange B10 • High response speed • No auxiliary energy source required
	G25	2.5 x 2.5" (63.5 x 63.5 mm)	ø0.375" (ø9.52 mm) solid shaft	5...6000	<ul style="list-style-type: none"> • Square flange • Inch dimensions • MIL connector or cable
	HOG 10	ø105 mm	ø12...20 mm (blind hollow shaft) ø17 mm (cone shaft 1:10)	300...5000	<ul style="list-style-type: none"> • Radial terminal box or axial terminal cover • Blind hollow shaft up to ø20 mm • ATEX II 3 G / 3 D • Redundant sensing • Function control with Enhanced Monitoring System
	HOG 100	ø105 mm	ø16 mm (blind hollow shaft) ø17 mm (cone shaft 1:10)	1024...10000	<ul style="list-style-type: none"> • Radial terminal box or axial terminal cover • High resolution • ATEX II 3 G / 3 D
	HOG 11 DNV	ø105 mm	ø16 mm (blind hollow shaft)	300...2500	<ul style="list-style-type: none"> • Very high protection IP 67 • Offshore and salt water firm • DNV approval
	HOG 11	ø105 mm	ø12...20 mm (blind hollow shaft) ø17 mm (cone shaft 1:10)	300...5000	<ul style="list-style-type: none"> • Very high protection IP 67 • Offshore and salt water firm • Radial terminal box or axial

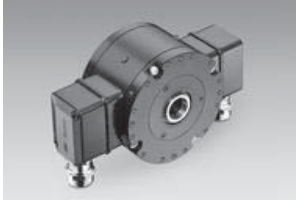
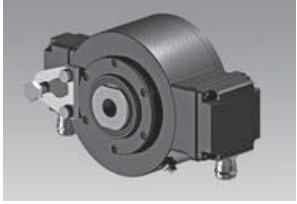
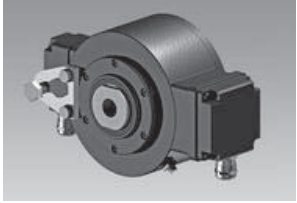




					terminal cover • ATEX II 3 G / 3 D • Redundant sensing • Function control with Enhanced Monitoring System
	HOG 10 + DSL.E	ø105 mm	ø16 mm (blind hollow shaft)	512...2500	• Incremental encoder combination with digital speed switch • Programmable for 2 switching speeds and 1 control output • ATEX II 3G/3D
	HOG 12	ø125 mm	ø30...45 mm (through hollow shaft)	600...1200	• Optical sensing method • Robust light-metal housing
	HOG 131	ø130 mm	ø16...36 mm (through hollow shaft)	1024...3072	• ATEX II 3 G / 3 D • Integrated lightning protection • Hybrid bearing with ceramic balls • Especially sealed for offshore applications
	HOG 14	ø158 mm	ø40...75 mm (through hollow shaft)	1024...5000	• Optical sensing method • Robust light-metal housing • ATEX II 3 G / 3 D
	HOG 10 + DSL.R	ø105 mm	ø16 mm (blind hollow shaft)	512...2500	• Incremental encoder combination with digital speed switch • Programmable for 3 switching speeds • ATEX II 3G/3D
	HOG 16	ø158 mm	ø20...38 mm (through hollow shaft)	250...2500	• Through hollow shaft up to ø38 mm • Redundant sensing

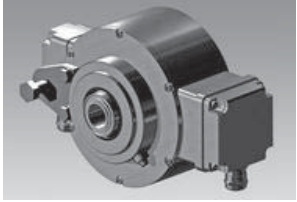

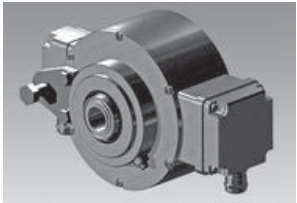
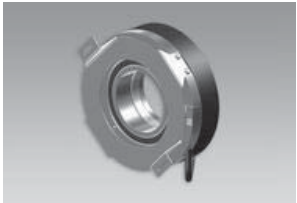




	HOG 86 + DSL	ø99 mm	ø16 mm (blind hollow shaft)	512...2500	<ul style="list-style-type: none"> • Incremental encoder combination with digital speed switch • Programmable for 3 switching speeds
	HOG 10 + ESL 90	ø105 mm	ø16...20 mm (blind hollow shaft) ø17 mm (cone shaft 1:10)	300...5000	<ul style="list-style-type: none"> • Encoder combination with electronic speed switch ESL 90 • Redundant sensing • Function control with Enhanced Monitoring System
	HOG 161	ø158 mm	ø38...75 mm (through hollow shaft)	250...2500	<ul style="list-style-type: none"> • ATEX II 3 G / 3 D • Redundant sensing
	HOG 10 + ESL 93	ø105 mm	ø16...20 mm (blind hollow shaft) ø17 mm (cone shaft 1:10)	300...5000	<ul style="list-style-type: none"> • Encoder combination with electronic speed switch ESL 90 • Redundant sensing • Function control with Enhanced Monitoring System
	HOG 163	ø158 mm	ø38...75 mm (through hollow shaft)	250...5000	<ul style="list-style-type: none"> • ATEX II 3 G / 3 D • Redundant sensing
	HOG 10 + FSL	ø105 mm	ø16...20 mm (blind hollow shaft) ø17 mm (cone shaft 1:10)	300...5000	<ul style="list-style-type: none"> • Encoder combination with centrifugal switch FSL • Blind hollow shaft up to ø20 mm • Redundant sensing • Function control with Enhanced Monitoring System









	HOG 165	ø165 mm	ø20...38 mm (blind hollow shaft)	1024...8192	<ul style="list-style-type: none"> • Special protection against corrosion • Large terminal box, turn by 180° • ATEX II 3 G / 3 D • Very high resistance to shock and vibrations
	HOG 86 + FSL	ø105 mm	ø16 mm (blind hollow shaft) ø17 mm (cone shaft 1:10)	500...5000	<ul style="list-style-type: none"> • Encoder combination with centrifugal switch FSL • Redundant sensing • Function control with Enhanced Monitoring System
	HOG 10 G	ø105 mm	ø16...20 mm (blind hollow shaft) ø17 mm (cone shaft 1:10)	300...5000	<ul style="list-style-type: none"> • Twin encoder combination with double sensing • ATEX II 3G/3D • Redundant sensing • Function control with Enhanced Monitoring System
	HOG 22	ø227 mm	ø80...115 mm (through hollow shaft)	720...4000	<ul style="list-style-type: none"> • ATEX II 3 G / 3 D • Redundant sensing • Plug-in electronics
	HOG 220	ø227 mm	ø80...115 mm (through hollow shaft)	1024	<ul style="list-style-type: none"> • ATEX II 3 G / 3 D • Redundant sensing
	HOG 28	ø287 mm	ø120...150 mm (through hollow shaft)	1024...2048	<ul style="list-style-type: none"> • Large terminal box, turn by 180° • Option: Plug-in electronics • ATEX II 3 G / 3 D • Redundant sensing

	HOG 11 + ESL 90	ø105 mm	ø16...20 mm (blind hollow shaft) ø17 mm (cone shaft 1:10)	300...5000	<ul style="list-style-type: none"> • Encoder combination with electronic speed switch ESL 90 • Offshore and salt water firm • High protection IP 67 • Redundant sensing • Function control with Enhanced Monitoring System
	HOG 60	ø58 mm	ø8...12 mm (blind hollow shaft)	200...10000	<ul style="list-style-type: none"> • High resistance to shock • High protection IP 65 • ATEX II 3 G / 3 D
	HOG 11 + ESL 93	ø105 mm	ø16...20 mm (blind hollow shaft) ø17 mm (cone shaft 1:10)	300...5000	<ul style="list-style-type: none"> • Encoder combination with electronic speed switch ESL 90 • Offshore and salt water firm • High protection IP 67 • Redundant sensing • Function control with Enhanced Monitoring System
	HOG 70	ø60 mm	ø12...14 mm (blind hollow shaft)	10...10000	<ul style="list-style-type: none"> • ATEX II 3 G / 3 D
	HOG 11 + FSL	ø105 mm	ø16...20 mm (blind hollow shaft) ø17 mm (cone shaft 1:10)	300...5000	<ul style="list-style-type: none"> • Encoder combination with centrifugal switch FSL • Offshore and salt water firm • High protection IP 67 • Redundant sensing • Function control with Enhanced Monitoring System

	HOG 71	ø60 mm	ø12...14 mm (blind hollow shaft)	64...2048	<ul style="list-style-type: none"> • ATEX II 3 G / 3 D
	HOG 11 G	ø105 mm	ø16...20 mm (blind hollow shaft) ø17 mm (cone shaft 1:10)	300...5000	<ul style="list-style-type: none"> • Twin encoder combination with double sensing • High protection IP 67 • Offshore and salt water firm • ATEX II 3G/3D • Redundant sensing • Function control with Enhanced Monitoring System
	HOG 75 K	ø75 mm	ø17 mm (cone shaft 1:10)	250...2500	<ul style="list-style-type: none"> • Very high resistance to vibrations • ATEX II 3 G / 3 D
	HOG 75	ø75 mm	ø12...26 mm (through hollow shaft)	250...2500	<ul style="list-style-type: none"> • Very high resistance to vibrations • ATEX II 3 G / 3 D
	HOG 8	ø86.5 mm	ø10...16 mm (through hollow shaft)	1...5000	<ul style="list-style-type: none"> • Compact, robust die-cast housing
	HOG 86	ø99 mm	ø12...16 mm (blind hollow shaft) ø17 mm (cone shaft 1:10)	500...5000	<ul style="list-style-type: none"> • Function control with Enhanced Monitoring System • ATEX II 3 G / 3 D
	HOG 86E	ø99 mm	ø12...16 mm (blind hollow shaft) ø17 mm (cone shaft 1:10)	500...2500	<ul style="list-style-type: none"> • ATEX II 3 G / 3 D

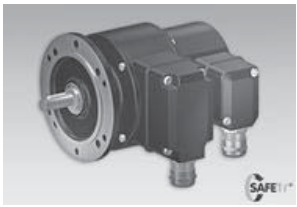



	HOG 86 M	ø99 mm	ø12...16 mm (blind hollow shaft) ø17 mm (cone shaft 1:10)	500...5000	<ul style="list-style-type: none"> • Function control with Enhanced Monitoring System • Redundant sensing • ATEX II 3 G / 3 D
	HOG 16 + DSLE	ø158 mm	ø20...50 mm (through hollow shaft)	512...2500	<ul style="list-style-type: none"> • Incremental encoder combination with digital speed switch • Programmable for 2 switching speeds and 1 control output
	HOG 16 + DSLR	ø158 mm	ø20...50 mm (through hollow shaft)	512...2500	<ul style="list-style-type: none"> • Incremental encoder combination with digital speed switch • Programmable for 3 switching speeds
	HOG 9	ø97 mm	ø12...16 mm (blind hollow shaft) ø17 mm (cone shaft 1:10)	300...5000	<ul style="list-style-type: none"> • ATEX II 3 G / 3 D • Function control with Enhanced Monitoring System
	HOG 9 G	ø97 mm	ø16 mm (blind hollow shaft) ø17 mm (cone shaft 1:10)	300...5000	<ul style="list-style-type: none"> • Twin encoder combination with double sensing • ATEX II 3G/3D • Function control with Enhanced Monitoring System
	HOGS 100	ø105 mm	ø16 mm (blind hollow shaft) ø17 mm (cone shaft 1:10)	720...5000	<ul style="list-style-type: none"> • Radial terminal box or axial terminal cover • Top-quality SinCos output-signals • ATEX II 3 G / 3 D
	HOGS 100 S	ø105 mm	ø16 mm (blind hollow shaft) ø17 mm (cone shaft 1:10)	1024...5000	<ul style="list-style-type: none"> • SIL2 approval • Radial terminal box or axial terminal cover • Top-quality SinCos output-signals • ATEX II 3 G / 3 D




	HOG 165 + DSL.E	ø165 mm	ø25 mm (through hollow shaft)	512...4096	<ul style="list-style-type: none"> • Incremental encoder combination with digital speed switch • Programmable for 2 switching speeds and 1 control output • ATEX II 3G/3D
	HOGS 14	ø158 mm	ø40...75 mm (through hollow shaft)	1024...5000	<ul style="list-style-type: none"> • Top-quality SinCos output-signals • ATEX II 3 G / 3 D
	HOG 165 + DSL.R	ø165 mm	ø25 mm (through hollow shaft)	512...4096	<ul style="list-style-type: none"> • Incremental encoder combination with digital speed switch • Programmable for 3 switching speeds • ATEX II 3G/3D
	HOGS 151	ø168 mm	ø60...70 mm (through hollow shaft)	1024...5000	<ul style="list-style-type: none"> • ATEX II 3 G / 3 D • Top-quality SinCos output-signals
	HOGS 71	ø60 mm	ø12...14 mm (blind hollow shaft)	1024...5000	<ul style="list-style-type: none"> • ATEX II 3 G / 3 D • Top-quality SinCos output-signals
	HOGS 75 K	ø75 mm	ø17 mm (cone shaft 1:10)	720...5000	<ul style="list-style-type: none"> • Very high resistance to vibrations • ATEX II 3 G / 3 D
	HOGS 75	ø75 mm	ø14...26 mm (through hollow shaft)	720...5000	<ul style="list-style-type: none"> • Very high resistance to vibrations • ATEX II 3 G / 3 D
	HS35F	ø3.15" (ø80 mm)	ø0.375...1" (ø9.525... 25.4 mm) (through hollow shaft isolated)	1024...80000	<ul style="list-style-type: none"> • Industrial standard • Inch dimensions • Very high IP protection • Isolated shaft

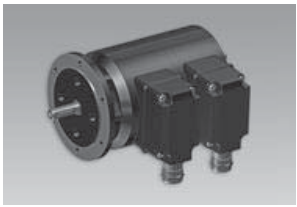
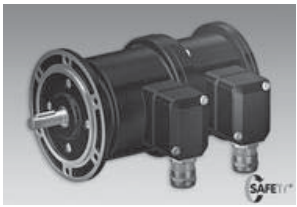
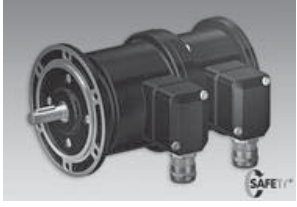
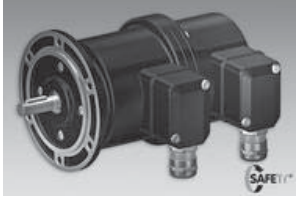
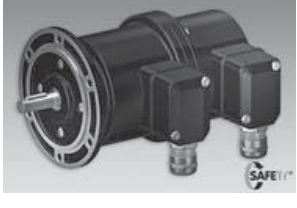
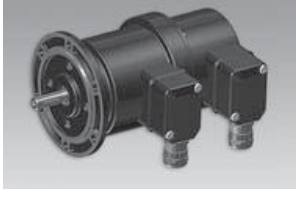
	HS35P - Programmable	ø3.15" (ø80 mm)	ø0.375...1" (ø9.525... 25.4 mm) (through hollow shaft isolated)	1...8192	<ul style="list-style-type: none"> • Programmable • Inch dimensions • Very high IP protection • Isolated shaft
	HS35S - Sine	ø3.15" (ø80 mm)	ø0.375...1" (ø9.525... 25.4 mm) (through hollow shaft isolated)	1024...5000	<ul style="list-style-type: none"> • Top-quality sine signals • Inch dimensions • Very high IP protection
	ExHS35	ø3.15" (ø80 mm)	ø0.375...1" (ø9.525... 25.4 mm) (through hollow shaft isolated)	1024...5000	<ul style="list-style-type: none"> • Intrinsically safe encoder • Inch dimensions • Very high IP protection
	OG 6	ø58 mm	ø6 mm solid shaft	100...512	<ul style="list-style-type: none"> • Solid shaft ø6 mm • Synchro flange
	OG 60	ø58 mm	ø6 mm solid shaft	10...10000	<ul style="list-style-type: none"> • Solid shaft ø6 mm • Synchro flange
	OG 71	ø58 mm	ø6 mm solid shaft	100...1024	<ul style="list-style-type: none"> • Solid shaft ø6 mm • High resistance to shock • ATEX II 3 G / 3 D
	OG 8	ø115 mm	ø11 mm solid shaft	1...5000	<ul style="list-style-type: none"> • Solid shaft ø11 mm • EURO flange B10
	OG 9	ø115 mm	ø11 mm solid shaft	25...5000	<ul style="list-style-type: none"> • Solid shaft ø11 mm • EURO flange B10 • Operating temperature up to +100 °C • ATEX II 3 G / 3 D

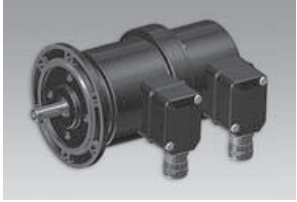



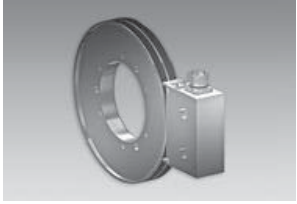


	OGS 71	ø58 mm	ø6 mm solid shaft	1024...5000	<ul style="list-style-type: none"> • ATEX II 3 G / 3 D
	POG 10	ø115 mm	ø11 mm solid shaft	300...5000	<ul style="list-style-type: none"> • EURO flange B10 • Encoder with solid shaft ø11 mm • Radial terminal box • ATEX II 3 G / 3 D • Redundant sensing • Function control with Enhanced Monitoring System
	POG 11	ø115 mm	ø11 mm solid shaft	300...5000	<ul style="list-style-type: none"> • Very high protection IP 67 • Offshore and salt water firm • Radial terminal box • ATEX II 3 G / 3 D • Redundant sensing • Function control with Enhanced Monitoring System
	POG 86	ø115 mm	ø11 mm solid shaft	500...5000	<ul style="list-style-type: none"> • Encoder with solid shaft ø11 mm • EURO flange B10 • ATEX II 3 G / 3 D • Function control with Enhanced Monitoring System
	POG 86E	ø115 mm	ø11 mm solid shaft	500...5000	<ul style="list-style-type: none"> • Encoder with solid shaft ø11 mm • EURO flange B10 • ATEX II 3 G / 3 D • Function control with Enhanced Monitoring System


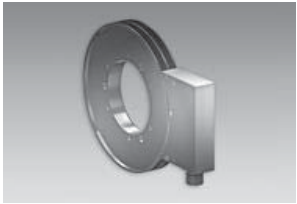
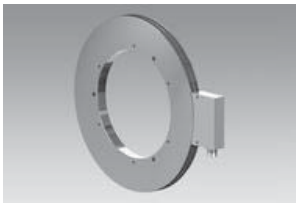





	POG 9	ø115 mm	ø11 mm solid shaft	300...5000	<ul style="list-style-type: none"> • Encoder with solid shaft ø11 mm • EURO flange B10 • ATEX II 3 G / 3 D • Function control with Enhanced Monitoring System
	POG 90	ø115 mm	ø11 mm solid shaft	1024...10000	<ul style="list-style-type: none"> • ATEX II 3 G / 3 D
	POGS 90	ø115 mm	ø11 mm solid shaft	720...5000	<ul style="list-style-type: none"> • ATEX II 3 G / 3 D
	POG 90 + ESL 90	ø115 mm	ø11 mm solid shaft	1024...10000	<ul style="list-style-type: none"> • Encoder combination with electronic speed switch ESL 90 • EURO flange B10 or foot mounting
	POG 90 + ESL 93	ø115 mm	ø11 mm solid shaft	1024...10000	<ul style="list-style-type: none"> • Encoder combination with electronic speed switch ESL 93 • EURO flange B10 or foot mounting
	OG 60 + GT 5	ø58 mm	ø6 mm solid shaft	10...10000	<ul style="list-style-type: none"> • Encoder combination with tachogenerator • Connector with metal mating connector • Synchro flange • Recognition of sense of rotation
	POG 10 + DSL.E	ø115 mm	ø11 mm solid shaft	512...2500	<ul style="list-style-type: none"> • Incremental encoder combination with digital speed switch • Programmable for 2 switching speeds and 1 control output • ATEX II 3G/3D

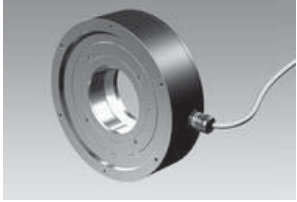







	POG 90 + FSL	ø115 mm	ø11 mm solid shaft	1024...10000	<ul style="list-style-type: none"> • Encoder combination with centrifugal switch FSL • EURO flange B10
	POG 10 + DSL.R	ø115 mm	ø11 mm solid shaft	512...2500	<ul style="list-style-type: none"> • Incremental encoder combination with digital speed switch • Programmable for 3 switching speeds • ATEX II 3G/3D
	POG 10 + ESL 90	ø115 mm	ø11 mm solid shaft	300...5000	<ul style="list-style-type: none"> • Encoder combination with electronic speed switch ESL 90 • EURO flange B10 or foot mounting • Redundant sensing • Function control with Enhanced Monitoring System
	POG 10 + ESL 93	ø115 mm	ø11 mm solid shaft	300...5000	<ul style="list-style-type: none"> • Encoder combination with electronic speed switch ESL 93 • EURO flange B10 or foot mounting • Redundant sensing • Function control with Enhanced Monitoring System
	POG 10 + FSL	ø115 mm	ø11 mm solid shaft	300...5000	<ul style="list-style-type: none"> • Encoder combination with centrifugal switch FSL • EURO flange B10 or foot mounting • Redundant sensing • Function control with Enhanced Monitoring System
	POG 10 G	ø115 mm	ø11 mm solid shaft	300...5000	<ul style="list-style-type: none"> • Twin encoder combination with double sensing • EURO flange B10 • ATEX II 3G/3D






					<ul style="list-style-type: none"> • Redundant sensing • Function control with Enhanced Monitoring System
	POG 11 + ESL 90	ø115 mm	ø11 mm solid shaft	300...5000	<ul style="list-style-type: none"> • Encoder combination with electronic speed switch ESL 90 • Offshore and salt water firm • High protection IP 67 • EURO flange B10 or foot mounting • Redundant sensing • Function control with Enhanced Monitoring System
	POG 11 + ESL 93	ø115 mm	ø11 mm solid shaft	300...5000	<ul style="list-style-type: none"> • Encoder combination with electronic speed switch ESL 93 • Offshore and salt water firm • High protection IP 67 • EURO flange B10 or foot mounting • Redundant sensing • Function control with Enhanced Monitoring System
	POG 11 + FSL	ø115 mm	ø11 mm solid shaft	300...5000	<ul style="list-style-type: none"> • Encoder combination with centrifugal switch FSL • Offshore and salt water firm • High protection IP 67 • EURO flange B10 or foot mounting • Redundant sensing • Function control with Enhanced Monitoring System


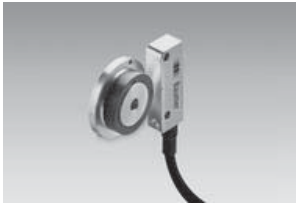




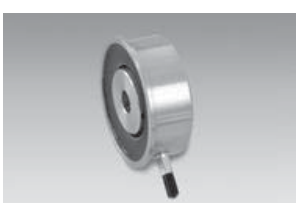

	POG 11 G	ø115 mm	ø11 mm solid shaft	300...5000	<ul style="list-style-type: none"> • Twin encoder with double sensing • High protection IP 67 • Offshore and salt water firm • EURO flange B10 • ATEX II 3G/3D • Redundant sensing • Function control EMS
	POG 9 + ESL 90	ø115 mm	ø11 mm solid shaft	300...5000	<ul style="list-style-type: none"> • Encoder combination with electronic speed switch ESL 90 • EURO flange B10 • Function control with Enhanced Monitoring System
	POG 9 + ESL 93	ø115 mm	ø11 mm solid shaft	300...5000	<ul style="list-style-type: none"> • Encoder combination with electronic speed switch ESL 93 • EURO flange B10 • Function control with Enhanced Monitoring System
	POG 86 + FSL	ø115 mm	ø11 mm solid shaft	500...5000	<ul style="list-style-type: none"> • Encoder combination with centrifugal switch FSL • EURO flange B10 • Function control with Enhanced Monitoring System
	POG 9 + FSL	ø115 mm	ø11 mm solid shaft	300...5000	<ul style="list-style-type: none"> • Encoder combination with centrifugal switch FSL • EURO flange B10 • Function control with Enhanced Monitoring System
	POG 86 G	ø115 mm	ø11 mm solid shaft	500...5000	<ul style="list-style-type: none"> • Twin encoder combination with double sensing • ATEX II 3G/3D • Function control with Enhanced Monitoring System









	POG 9 G	ø115 mm	ø11 mm solid shaft	300...5000	<ul style="list-style-type: none"> • Twin encoder combination with double sensing • ATEX II 3G/3D • Function control with Enhanced Monitoring System
	MIR 3000F - HDmag flex	-	ø300...3183 mm (through hollow shaft)	512...131072512...16384	<ul style="list-style-type: none"> • Integrated signal processing • Magnetic sensing • Protection IP 67 • Square-wave or sine signals
	MIR 350A - HDmag flex	-	ø90...300 mm (through hollow shaft)	512...131072512...16384	<ul style="list-style-type: none"> • Integrated signal processing • Magnetic sensing • Protection IP 67 • Square-wave or sine signals
	MHGE 100 - HDmag	ø99,9 mm	ø16...80 mm (through hollow shaft)	64...409664	<ul style="list-style-type: none"> • Max. 4096 pulses per revolution • Square-wave or sine signals • Protection IP 67 • DNV approval as option
	MHGE 200 - HDmag	ø201.7 mm	ø50...180 mm (through hollow shaft)	128...8192128	<ul style="list-style-type: none"> • Max. 8192 pulses per revolution • Square-wave or sine signals • Protection IP 67 • DNV approval as option
	MHGE 400 - HDmag	ø405.4 mm	ø70...340 mm (through hollow shaft)	256...16384256	<ul style="list-style-type: none"> • Max. 16384 pulses per revolution • Square-wave or sine signals • Protection IP 67 • DNV approval as option
	MHGE 800 - HDmag	ø813 mm	ø650...740 mm (through hollow shaft)	512...32768512	<ul style="list-style-type: none"> • Max. 32768 pulses per revolution • Square-wave or sine signals • Protection IP 67 • DNV approval as option

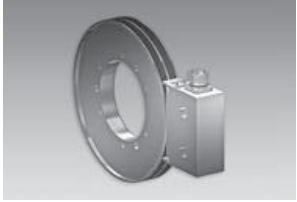



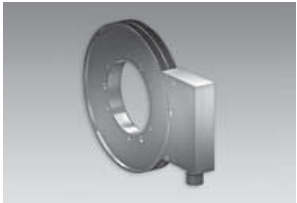
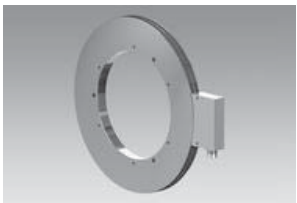

	MHGP 100 - HDmag	ø99,9 mm	ø16...80 mm (through hollow shaft)	64...13107264...8192	<ul style="list-style-type: none"> • Max. 131072 pulses per revolution • Square-wave or sine signals • Protection IP 67
	MHGP 200 - HDmag	ø201.7 mm	ø50...180 mm (through hollow shaft)	128...262144128...16384	<ul style="list-style-type: none"> • Max. 262144 pulses per revolution • Square-wave or sine signals • Protection IP 67
	MHGP 400 - HDmag	ø405.4 mm	ø70...340 mm (through hollow shaft)	256...524288256...32768	<ul style="list-style-type: none"> • Max. 524288 pulses per revolution • Square-wave or sine signals • Protection IP 67
	HG 6	ø58 mm	ø12...16 mm (blind hollow shaft)	100...512	<ul style="list-style-type: none"> • Fit for high operating speed • Max. 512 pulses per revolution
	HG 16	ø158 mm	ø20...45 mm (through hollow shaft)	250...2048	<ul style="list-style-type: none"> • Robust and wearless • Fit for high operating speed • Max. 2048 pulses per revolution
	HG 18	ø186 mm	ø65...85 mm (through hollow shaft)	250...2500	<ul style="list-style-type: none"> • Robust and wearless • Fit for high operating speed • Max. 2500 pulses per revolution
	HG 22	ø227 mm	ø90...120 mm (through hollow shaft)	720...4000	<ul style="list-style-type: none"> • Robust and wearless • Fit for high operating speed • Max. 4000 pulses per revolution
	HG 21	ø240 mm	ø85...95 mm (through hollow shaft)	2500	<ul style="list-style-type: none"> • Robust and wearless • Fit for high operating speed • 2500 pulses per revolution

	HG 211	ø210 mm	ø85...95 mm (through hollow shaft)	2500	<ul style="list-style-type: none"> • Robust and wearless • Fit for high operating speed • Resolution 2500 pulses
Бесподшипниковые					
	EAM360 - Kit SSI - MAGRES	ø6 mm (magnet bore) ø8 mm (magnet bore) ø12 mm (magnet bore)	-	ST ≤16384 / 14 bit MT ≤262144 / 18 bit	• SSI
	EAM360 - Kit CANopen® - MAGRES	ø6 mm (magnet bore) ø8 mm (magnet bore) ø12 mm (magnet bore)	-	ST ≤16384 / 14 bit MT ≤262144 / 18 bit	• CANopen®
	EAM360R - Kit CANopen®/SAE J1939 - MAGRES	ø6 mm (magnet bore) ø8 mm (magnet bore) ø12 mm (magnet bore)	-	ST ≤16384 / 14 bit MT ≤262144 / 18 bit	• CANopen® • SAE J1939
	EAM360R - Kit analog - MAGRES	ø6 mm (magnet bore) ø8 mm (magnet bore) ø12 mm (magnet bore)	-	-	• Analog
	EAM580 - Kit SSI - MAGRES	ø6 mm (magnet bore) ø8 mm (magnet bore) ø12 mm (magnet bore)	-	ST ≤16384 / 14 bit MT ≤262144 / 18 bit	• SSI
	EAM580 - Kit CANopen® - MAGRES	ø6 mm (magnet bore) ø8 mm (magnet bore) ø12 mm (magnet bore)	-	ST ≤16384 / 14 bit MT ≤262144 / 18 bit	• CANopen®
	EAM580 - Kit PROFINET - MAGRES	ø6 mm (magnet bore) ø8 mm (magnet bore) ø12 mm (magnet bore)	-	ST ≤16384 / 14 bit MT ≤65536 / 16 bit	• PROFINET IO

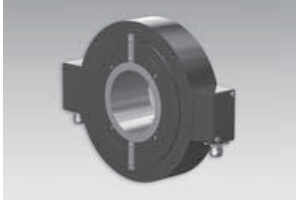

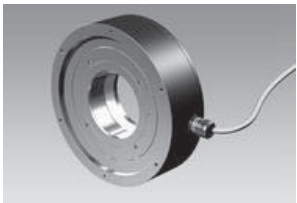
		bore)			
	EAM580R - Kit CANopen®/SAE J1939 - MAGRES	ø6 mm (magnet bore) ø8 mm (magnet bore) ø12 mm (magnet bore)	-	ST ≤16384 / 14 bit MT ≤262144 / 18 bit	<ul style="list-style-type: none"> • CANopen® • SAE J1939
	EAM580R - Kit analog - MAGRES	ø6 mm (magnet bore) ø8 mm (magnet bore) ø12 mm (magnet bore)	-	-	<ul style="list-style-type: none"> • Analog
	MQR 3000F - HDmag flex	ø300...3183 mm (through hollow shaft)	1024...4096	-	<ul style="list-style-type: none"> • "Quasi-absolut", i. e. providing a valid absolute position only after initialization • Integrated signal processing • SSI, resolution up to 20 bit • Magnetic sensing • Protection IP 67 • Incremental outputs as option
	MQR 350A - HDmag flex	ø90...300 mm (through hollow shaft)	1024...4096	-	<ul style="list-style-type: none"> • "Quasi-absolut", i. e. providing a valid absolute position only after initialization • Integrated signal processing • SSI, resolution up to 20 bit • Magnetic sensing • Protection IP 67 • Incremental outputs as option
	MHAD 50 - HDmag	ø30 mm (through hollow shaft)	1024...8192	-	<ul style="list-style-type: none"> • Resolution up to 16 bit • Protection IP 67 • SSI, CANopen® • Incremental outputs as option

	MIL10	-	-	5 µm (4-times evaluation)	<ul style="list-style-type: none"> • Output signals A 90° B or A 90° B +R • Protection IP 67
	MIR10	ø6...43.5 mm (through hollow shaft)	320...4096	-	<ul style="list-style-type: none"> • Max. 4096 pulses per revolution • Output signals A 90° B or A 90° B +R • Protection IP 67
	MIR 3000F - HDmag flex	ø300...3183 mm (through hollow shaft)	512...131072	-	<ul style="list-style-type: none"> • Integrated signal processing • Magnetic sensing • Protection IP 67 • Square-wave or sine signals
	MIR 350A - HDmag flex	ø90...300 mm (through hollow shaft)	512...131072	-	<ul style="list-style-type: none"> • Integrated signal processing • Magnetic sensing • Protection IP 67 • Square-wave or sine signals
	MDFK 08 - push-pull	ø6...43.5 mm (through hollow shaft)	256...1024	-	<ul style="list-style-type: none"> • Resolution up to 1024 pulses • Output signals A 90° B or A 90° B +N • Protection IP 67
	MDFK 08 - RS422	ø6...43.5 mm (through hollow shaft)	256...1024	-	<ul style="list-style-type: none"> • Resolution up to 1024 pulses • Output signals A 90° B or A 90° B +N • Protection IP 67
	ITD 27 A 4 Y27	ø10...16 mm (blind hollow shaft)	1...32	-	<ul style="list-style-type: none"> • Magnetic sensing • Protection IP 67
	ITD 67 A 4 Y 9	ø10...45 mm (through hollow shaft)	20...50	-	<ul style="list-style-type: none"> • Magnetic sensing • Flat design • Protection IP 67












	ITD 75 A 4	ø60...85 mm (through hollow shaft)	1000...2500	-	<ul style="list-style-type: none"> • Large hollow shaft • Incremental encoder without bearings
	ITD49H00	ø9...28 mm (through hollow shaft)	64...2048	-	<ul style="list-style-type: none"> • Square-wave signals • Flat design • Protection IP 67
	ITD49H00 sine	ø9...28 mm (through hollow shaft)	-	-	<ul style="list-style-type: none"> • Flat design • Protection IP 67
	ITD69H00	ø40...65 mm (through hollow shaft)	128...4096	-	<ul style="list-style-type: none"> • Square-wave signals • Flat design • Protection IP 67
	ITD69H00 sine	ø40...65 mm (through hollow shaft)	-	-	<ul style="list-style-type: none"> • Flat design • Protection IP 67
	ITD89H00	ø70...140 mm (through hollow shaft)	256...8192	-	<ul style="list-style-type: none"> • Very high IP protection • Square-wave signals • Flat design
	ITD89H00 sine	ø70...140 mm (through hollow shaft)	-	-	<ul style="list-style-type: none"> • Very high IP protection • Flat design
	MHGE 100 - HDmag	ø16...80 mm (through hollow shaft)	64...4096	-	<ul style="list-style-type: none"> • Max. 4096 pulses per revolution • Square-wave or sine signals • Protection IP 67 • DNV approval as option


	MHGE 200 - HDmag	ø50...180 mm (through hollow shaft)	128...8192	-	<ul style="list-style-type: none"> • Max. 8192 pulses per revolution • Square-wave or sine signals • Protection IP 67 • DNV approval as option
	MHGE 400 - HDmag	ø70...340 mm (through hollow shaft)	256...16384	-	<ul style="list-style-type: none"> • Max. 16384 pulses per revolution • Square-wave or sine signals • Protection IP 67 • DNV approval as option
	MHGE 800 - HDmag	ø650...740 mm (through hollow shaft)	512...32768	-	<ul style="list-style-type: none"> • Max. 32768 pulses per revolution • Square-wave or sine signals • Protection IP 67 • DNV approval as option
	MHGP 100 - HDmag	ø16...80 mm (through hollow shaft)	64...131072	-	<ul style="list-style-type: none"> • Max. 131072 pulses per revolution • Square-wave or sine signals • Protection IP 67
	MHGP 200 - HDmag	ø50...180 mm (through hollow shaft)	128...262144	-	<ul style="list-style-type: none"> • Max. 262144 pulses per revolution • Square-wave or sine signals • Protection IP 67
	MHGP 400 - HDmag	ø70...340 mm (through hollow shaft)	256...524288	-	<ul style="list-style-type: none"> • Max. 524288 pulses per revolution • Square-wave or sine signals • Protection IP 67
	MHAP 100 - HDmag	ø16...80 mm (through hollow shaft)	1...131072	-	<ul style="list-style-type: none"> • Resolution up to 17 bit • Protection IP 67 • SSI • Additional incremental output




	MHAP 200 - HDmag	ø50...180 mm (through hollow shaft)	1...262144	-	<ul style="list-style-type: none"> • Resolution up to 17 bit • Protection IP 67 • SSI • Additional incremental output
	MHAP 400 - HDmag	ø70...340 mm (through hollow shaft)	1...524288	-	<ul style="list-style-type: none"> • Resolution up to 17 bit • Protection IP 67 • SSI • Additional incremental output
	BMMK 58 flexible - MAGRES	ø12 mm (magnet bore)	-	ST ≤4096 / 12 bit MT ≤262144 / 18 bit	<ul style="list-style-type: none"> • Encoder kit multiturn • CANopen®, DeviceNet, Profibus • EtherCAT, EtherNet/IP • PROFINET, POWERLINK
	BMSK 58 flexible - MAGRES	ø12 mm (magnet bore)	-	ST ≤4096 / 12 bit	<ul style="list-style-type: none"> • Encoder kit singleturn • CANopen®, DeviceNet, Profibus • EtherCAT, EtherNet/IP • PROFINET, POWERLINK
	HG 6	ø12...16 mm (blind hollow shaft)	100...512	-	<ul style="list-style-type: none"> • Fit for high operating speed • Max. 512 pulses per revolution
	HG 16	ø20...45 mm (through hollow shaft)	250...2048	-	<ul style="list-style-type: none"> • Robust and wearless • Fit for high operating speed • Max. 2048 pulses per revolution
	HG 18	ø65...85 mm (through hollow shaft)	250...2500	-	<ul style="list-style-type: none"> • Robust and wearless • Fit for high operating speed • Max. 2500 pulses per revolution












	HG 22	$\varnothing 90 \dots 120$ mm (through hollow shaft)	720...4000	-	<ul style="list-style-type: none"> • Robust and wearless • Fit for high operating speed • Max. 4000 pulses per revolution
	HG 21	$\varnothing 85 \dots 95$ mm (through hollow shaft)	2500	-	<ul style="list-style-type: none"> • Robust and wearless • Fit for high operating speed • 2500 pulses per revolution
	HG 211	$\varnothing 85 \dots 95$ mm (through hollow shaft)	2500	-	<ul style="list-style-type: none"> • Robust and wearless • Fit for high operating speed • Resolution 2500 pulses












Cable transducer












Sample picture	Product	Measuring length	Distance/revolution	Features
	GCA5 - analog	4.7 m	-	Analog output
	GCA5 - CANopen®	4.7 m	-	CANopen®
	BMMS K23 CANopen® - MAGRES	2.3 m	-	Cable transducer max. 2.3 m CANopen® Redundant
	BMMS K23 SSI - MAGRES	2.3 m	239.7 ±0.3 mm	Cable transducer max. 2.3 m SSI
	BMMS K34 CANopen® - MAGRES redundant	3.4 m	-	Cable transducer max. 3.4 m CANopen® Redundant
	BMMS K34 SSI - MAGRES	3.4 m	241.9 +1.2/-0.8 mm	Cable transducer max. 2.3 m SSI
	BMMS K50 CANopen® - MAGRES redundant	5 m	-	Cable transducer max. 5 m CANopen® Redundant
	BMMS K50 SSI - MAGRES	5 m	242 ±1 mm	Cable transducer max. 5 m SSI
	BMMS K23 analog / cable-pull - MAGRES redundant	2.3 m	-	Cable transducer max. 2.3 m Analog Redundant
	BMMS K50 analog / cable-pull - MAGRES redundant	5 m	-	Cable transducer max. 5 m Analog Redundant
	BMMS M50 analog / cable-pull - MAGRES redundant	5 m	-	Cable transducer max. 5 m Analog Redundant

	BMMS M75 CANopen® / cable-pull - MAGRES	7.5 m	333.32 ±0.3 mm	Cable transducer max. 7.5 m CANopen®
	BMMS M75 analog / cable-pull - MAGRES redundant	7.5 m	-	Cable transducer max. 7.5 m Analog Redundant
	Cable transducer GCI/GCA4 (3 m)	3 m	260.09 mm	Incremental encoder Absolute encoder Fieldbus interfaces
	Cable transducer GCI/GCA15 (5 m)	5 m	315.07 mm	Incremental encoder Absolute encoder Fieldbus interfaces
	Cable transducer GCI/GCA15 (7.5 m)	7.5 m	315.07 mm	Incremental encoder Absolute encoder Fieldbus interfaces
	Cable transducer GCI/GCA15 (10 m)	10 m	315.07 mm	Incremental encoder Absolute encoder Fieldbus interfaces
	Cable transducer GCI/GCA15 (15 m)	15 m	315.07 mm	Incremental encoder Absolute encoder Fieldbus interfaces
	Cable transducer GCI/GCA50 (30 m)	30 m	500 mm	Incremental encoder Absolute encoder Fieldbus interfaces
	Cable transducer GCI/GCA50 (40 m)	40 m	500 mm	Incremental encoder Absolute encoder Fieldbus interfaces
	Cable transducer GCI/GCA50 (50 m)	50 m	500 mm	Incremental encoder Absolute encoder Fieldbus interfaces

Sample picture	Product family	Size (flange)	Shaft type	Resolution max.	Features
	EAM360 - hollow shaft CANopen® - MAGRES	ø36 mm	ø10...15 mm (blind hollow shaft)	ST ≤16384 / 14 bit MT ≤262144 / 18 bit	• CANopen®
	EAM360 - hollow shaft SSI - MAGRES	ø36 mm	ø10...15 mm (blind hollow shaft)	ST ≤16384 / 14 bit MT ≤262144 / 18 bit	• SSI
	EAM360 - solid shaft CANopen® - MAGRES	ø36 mm	ø10 x 16 mm, solid shaft with flat	ST ≤16384 / 14 bit MT ≤262144 / 18 bit	• CANopen®
	EAM360 - solid shaft SSI - MAGRES	ø36 mm	ø10 x 16 mm, solid shaft with flat	ST ≤16384 / 14 bit MT ≤262144 / 18 bit	• SSI
	EAM360R - hollow shaft CANopen®/SAE J1939 - MAGRES	ø36 mm	ø10...15 mm (blind hollow shaft)	ST ≤16384 / 14 bit MT ≤262144 / 18 bit	• CANopen® • SAE J1939
	EAM360R - solid shaft CANopen®/SAE J1939 - MAGRES	ø36 mm	ø10 x 16 mm, solid shaft with flat	ST ≤16384 / 14 bit MT ≤262144 / 18 bit	• CANopen® • SAE J1939
	EAM360R - hollow shaft analog - MAGRES	ø36 mm	ø10...15 mm (blind hollow shaft)	-	• Analog
	EAM360R - solid shaft analog - MAGRES	ø36 mm	ø10 x 16 mm, solid shaft with flat	-	• Analog
	EAM580 - hollow shaft CANopen® - MAGRES	ø58 mm	ø12...15 mm (blind hollow shaft)	ST ≤16384 / 14 bit MT ≤262144 / 18 bit	• CANopen®
	EAM580 - hollow shaft PROFINET - MAGRES	ø58 mm	ø12...15 mm (blind hollow shaft)	ST ≤16384 / 14 bit MT ≤65536 / 16 bit	• PROFINET IO
	EAM580 - hollow shaft SSI - MAGRES	ø58 mm	ø12...15 mm (blind hollow shaft)	ST ≤16384 / 14 bit MT ≤262144 / 18 bit	• SSI





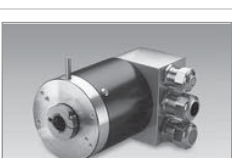




					
	EAM580 - clamping flange CANopen® - MAGRES	ø58 mm	ø10 x20 mm, solid shaft with flat	ST ≤16384 / 14 bit MT ≤262144 / 18 bit	• CANopen®
	EAM580 - synchro flange CANopen® - MAGRES	ø58 mm	ø6 x 10 mm, solid shaft with flat	ST ≤16384 / 14 bit MT ≤262144 / 18 bit	• CANopen®
	EAM580 - clamping flange PROFINET - MAGRES	ø58 mm	ø10 x20 mm, solid shaft with flat	ST ≤16384 / 14 bit MT ≤65536 / 16 bit	• PROFINET IO
	EAM580 - synchro flange PROFINET - MAGRES	ø58 mm	ø6 x 10 mm, solid shaft with flat	ST ≤16384 / 14 bit MT ≤65536 / 16 bit	• PROFINET IO
	EAM580 - clamping flange SSI - MAGRES	ø58 mm	ø10 x20 mm, solid shaft with flat	ST ≤16384 / 14 bit MT ≤262144 / 18 bit	• SSI
	EAM580 - synchro flange SSI - MAGRES	ø58 mm	ø6 x 10 mm, solid shaft with flat	ST ≤16384 / 14 bit MT ≤262144 / 18 bit	• SSI
	EAM580R - hollow shaft CANopen® - MAGRES redundant	ø58 mm	ø12...15 mm (blind hollow shaft)	ST ≤16384 / 14 bit MT ≤262144 / 18 bit	• CANopen® • SAE J1939
	EAM580R - hollow shaft CANopen®/SAE J1939 - MAGRES	ø58 mm	ø12...15 mm (blind hollow shaft)	ST ≤16384 / 14 bit MT ≤262144 / 18 bit	• CANopen® • SAE J1939
	EAM580R - hollow shaft analog - MAGRES	ø58 mm	ø12...15 mm (blind hollow shaft)	-	• Analog
	EAM580R - clamping flange CANopen® - MAGRES redundant	ø58 mm	ø10 x20 mm, solid shaft with flat	ST ≤16384 / 14 bit MT ≤262144 / 18 bit	• CANopen®
	EAM580R - synchro flange CANopen® - MAGRES	ø58 mm	ø6 x 10 mm, solid shaft with flat	ST ≤16384 / 14 bit	• CANopen®










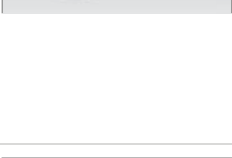
	redundant			MT ≤262144 / 18 bit	
	EAM580R - clamping flange CANopen®/SAE J1939 - MAGRES	ø58 mm	ø10 x 16 mm, solid shaft with flat	ST ≤16384 / 14 bit MT ≤262144 / 18 bit	• CANopen® • SAE J1939
	EAM580R - synchro flange CANopen®/SAE J1939 - MAGRES	ø58 mm	ø6 x 10 mm, solid shaft with flat	ST ≤16384 / 14 bit MT ≤262144 / 18 bit	• CANopen® • SAE J1939
	EAM580R - clamping flange analog - MAGRES	ø58 mm	ø10 x 20 mm, solid shaft with flat	-	• Analog
	EAM580R - synchro flange analog - MAGRES	ø58 mm	ø6 x 10 mm, solid shaft with flat	-	• Analog
	EAM360 - Kit SSI - MAGRES	ø36 mm	ø6 mm (magnet bore) ø8 mm (magnet bore) ø12 mm (magnet bore)	ST ≤16384 / 14 bit MT ≤262144 / 18 bit	• SSI
	EAM360 - Kit CANopen® - MAGRES	ø36 mm	ø6 mm (magnet bore) ø8 mm (magnet bore) ø12 mm (magnet bore)	ST ≤16384 / 14 bit MT ≤262144 / 18 bit	• CANopen®
	EAM360R - Kit CANopen®/SAE J1939 - MAGRES	ø36 mm	ø6 mm (magnet bore) ø8 mm (magnet bore) ø12 mm (magnet bore)	ST ≤16384 / 14 bit MT ≤262144 / 18 bit	• CANopen® • SAE J1939
	EAM360R - Kit analog - MAGRES	ø36 mm	ø6 mm (magnet bore) ø8 mm (magnet bore) ø12 mm (magnet bore)	-	• Analog
	EAM580 - Kit SSI - MAGRES	ø58 mm	ø6 mm (magnet bore) ø8 mm (magnet bore) ø12 mm (magnet bore)	ST ≤16384 / 14 bit MT ≤262144 / 18 bit	• SSI
	EAM580 - Kit CANopen® - MAGRES	ø58 mm	ø6 mm (magnet bore) ø8 mm (magnet bore) ø12 mm (magnet bore)	ST ≤16384 / 14 bit MT ≤262144 / 18 bit	• CANopen®
	EAM580 - Kit PROFINET - MAGRES	ø58 mm	ø6 mm (magnet bore) ø8 mm (magnet bore)	ST ≤16384 / 14 bit	• PROFINET IO

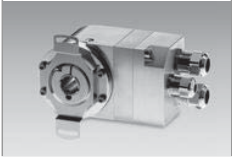









			ø12 mm (magnet bore)	MT ≤65536 / 16 bit	
	EAM580R - Kit CANopen®/SAE J1939 - MAGRES	ø58 mm	ø6 mm (magnet bore) ø8 mm (magnet bore) ø12 mm (magnet bore)	ST ≤16384 / 14 bit MT ≤262144 / 18 bit	<ul style="list-style-type: none"> • CANopen® • SAE J1939
	EAM580R - Kit analog - MAGRES	ø58 mm	ø6 mm (magnet bore) ø8 mm (magnet bore) ø12 mm (magnet bore)	-	<ul style="list-style-type: none"> • Analog
	EAM280 - solid shaft analog	ø48 mm, housing 28.6 mm	ø6 mm, solid shaft with flat Push-on coupling	-	<ul style="list-style-type: none"> • Singleturn • Analog
	BMMV 58K flexible - MAGRES	ø58 mm	ø10 x 20 mm, solid shaft with flat (clamping flange)	ST ≤4096 / 12 bit MT ≤262144 / 18 bit	<ul style="list-style-type: none"> • CANopen®, DeviceNet • EtherCAT, EtherNet/IP • SAEJ1939, PoE, Profibus • PROFINET, POWERLINK
	BMSV 58K flexible - MAGRES	ø58 mm	ø10 x 20 mm, solid shaft with flat (clamping flange)	ST ≤4096 / 12 bit	<ul style="list-style-type: none"> • CANopen®, DeviceNet • EtherCAT, EtherNet/IP • SAEJ1939, PoE, Profibus • PROFINET, POWERLINK
	BMMV 58S flexible - MAGRES	ø58 mm	ø6 x 10 mm, solid shaft with flat (synchro flange)	ST ≤4096 / 12 bit MT ≤262144 / 18 bit	<ul style="list-style-type: none"> • CANopen®, DeviceNet • EtherCAT, EtherNet/IP • SAEJ1939, PoE, Profibus • PROFINET, POWERLINK
	BMSV 58S flexible - MAGRES	ø58 mm	ø6 x 10 mm, solid shaft with flat (synchro flange)	ST ≤4096 / 12 bit	<ul style="list-style-type: none"> • CANopen®, DeviceNet • EtherCAT, EtherNet/IP • SAEJ1939, PoE, Profibus • PROFINET, POWERLINK
	BMMH 58 flexible - MAGRES	ø58 mm	ø12 mm (blind hollow shaft) ø15 mm (blind hollow shaft)	ST ≤4096 / 12 bit MT ≤262144 / 18 bit	<ul style="list-style-type: none"> • CANopen®, DeviceNet • EtherCAT, EtherNet/IP • SAEJ1939, PoE, Profibus • PROFINET, POWERLINK
	BMSH 58 flexible - MAGRES	ø58 mm	ø12 mm (blind hollow shaft) ø15 mm (blind hollow shaft)	ST ≤4096 / 12 bit	<ul style="list-style-type: none"> • CANopen®, DeviceNet • EtherCAT, EtherNet/IP • SAEJ1939, PoE, Profibus • PROFINET, POWERLINK
	EAL580-B - blind hollow shaft	ø58 mm	ø10...15 mm (blind hollow shaft)	ST ≤262144 / 18 bit (adjustable) MT ≤65536 / 16 bit (adjustable)	<ul style="list-style-type: none"> • PROFINET I/O






	EAL580-T - through hollow shaft	ø58 mm	ø10...14 mm (through hollow shaft)	ST ≤262144 / 18 bit (adjustable) MT ≤65536 / 16 bit (adjustable)	• PROFINET I/O
	EAL580-SC - clamping flange	ø58 mm	ø10 x 20 mm, solid shaft with flat	ST ≤262144 / 18 bit (adjustable) MT ≤65536 / 16 bit (adjustable)	• PROFINET I/O
	EAL580-SY - synchro flange	ø58 mm	ø6 x 10 mm, solid shaft with flat	ST ≤262144 / 18 bit (adjustable) MT ≤65536 / 16 bit (adjustable)	• PROFINET I/O
	EFL580 - SSI	ø58 mm	ø9.25 mm cone shaft (1:10)	ST 8192 / 13 bit	• SSI • Operating temperature max. +105 °C
	EFL580 - BiSS C	ø58 mm	ø9.25 mm cone shaft (1:10)	ST 8192 / 13 bit	• BiSS C • Operating temperature max. +105 °C
	GM400	ø58 mm	ø10 mm solid shaft	ST ≤16384 / 14 bit MT ≤65536 / 16 bit	• Incremental outputs as option
	GA240 - SSI	ø58 mm	ø10 mm solid shaft	ST ≤16384 / 14 bit	• Gray or binary code
	GM401	ø58 mm	ø6 mm solid shaft	ST ≤16384 / 14 bit MT ≤65536 / 16 bit	• Incremental outputs as option
	GA241 - SSI	ø58 mm	ø6 mm solid shaft	ST ≤16384 / 14 bit	• Gray or binary code
	GXM2S	ø58 mm	ø12 mm (blind hollow shaft) ø14 mm (blind hollow shaft) ø15 mm (blind hollow shaft)	ST ≤16384 / 14 bit MT 4096 / 12 bit	• Diagnostic functions
					•

	GXA2S	ø58 mm	ø12 mm (blind hollow shaft) ø14 mm (blind hollow shaft) ø15 mm	ST ≤16384 / 14 bit	
	G0M2H	ø58 mm	ø10 mm (through hollow shaft) ø12 mm (through hollow shaft) ø14 mm (through hollow shaft)	ST ≤16384 / 14 bit MT 4096 / 12 bit	• Diagnostic functions
	G0A2H	ø58 mm	ø10 mm (through hollow shaft) ø12 mm (through hollow shaft) ø14 mm (through hollow shaft)	ST ≤16384 / 14 bit	• Diagnostic functions
	GXP5W - CANopen®	ø58 mm	ø10 mm solid shaft (clamping flange) ø6 mm solid shaft (synchro flange)	ST ≤8192 / 13 bit MT ≤65536 / 16 bit	• CANopen® • CANopen® Lift • Status indicator
	GXP5S - CANopen®	ø58 mm	ø12 mm (blind hollow shaft) ø14 mm (blind hollow shaft) ø15 mm (blind hollow shaft)	ST ≤8192 / 13 bit MT ≤65536 / 16 bit	• CANopen® • LED status indicator
	G0P5H - CANopen®	ø58 mm	ø10 mm (through hollow shaft) ø12 mm (through hollow shaft) ø14 mm (through hollow shaft)	ST ≤8192 / 13 bit MT ≤65536 / 16 bit	• CANopen® • LED status indicator
	GXP8W - DeviceNet	ø58 mm	ø10 mm solid shaft (clamping flange) ø6 mm solid shaft (synchro flange)	ST ≤8192 / 13 bit MT ≤65536 / 16 bit	• DeviceNet • LED status indicator
	GXM7W - RS485	ø58 mm	ø10 mm solid shaft (clamping flange) ø6 mm solid shaft (synchro flange)	ST 8192 / 13 bit MT 4096 / 12 bit	• RS485
	GXM7S - RS485	ø58 mm	ø12 mm (blind hollow shaft) ø14 mm (blind hollow shaft)	ST 8192 / 13 bit MT 4096 / 12 bit	• RS485
	GXM7W - SLIN	ø58 mm	ø10 mm solid shaft (clamping flange) ø6 mm solid shaft (synchro flange)	ST 8192 / 13 bit MT 4096 / 12 bit	• SLIN protocol
	GA240 - parallel	ø58 mm	ø10 mm solid shaft	ST 8192 / 13 bit	• Gray code

	GA241 - parallel	ø58 mm	ø6 mm solid shaft	ST 8192 / 13 bit	• Gray code
	GXMMW	ø58 mm	ø10 mm solid shaft (clamping flange) ø6 mm solid shaft (synchro flange)	ST ≤8192 / 13 bit MT ≤65536 / 16 bit	• CANopen®, DeviceNet • EtherCAT, EtherNet/IP, SSI • SAEJ1939, Profibus • PROFINET, POWERLINK
	GXAMW	ø58 mm	ø10 mm solid shaft (clamping flange) ø6 mm solid shaft (synchro flange)	ST ≤8192 / 13 bit	• CANopen®, DeviceNet • EtherCAT, EtherNet/IP, SSI • SAEJ1939, Profibus • PROFINET, POWERLINK
	GXMMW + incremental	ø58 mm	ø10 mm solid shaft (clamping flange) ø6 mm solid shaft (synchro flange)	ST ≤8192 / 13 bit MT ≤65536 / 16 bit	• CANopen®, DeviceNet • EtherCAT, EtherNet/IP, SSI • SAEJ1939, Profibus • PROFINET, POWERLINK
	GXMMS	ø58 mm	ø12 mm (blind hollow shaft) ø14 mm (blind hollow shaft) ø15 mm (blind hollow shaft)	ST ≤8192 / 13 bit MT ≤65536 / 16 bit	• CANopen®, DeviceNet • EtherCAT, EtherNet/IP, SSI • SAEJ1939, Profibus • PROFINET, POWERLINK
	GXAMS	ø58 mm	ø12 mm (blind hollow shaft) ø14 mm (blind hollow shaft) ø15 mm (blind hollow shaft)	ST ≤8192 / 13 bit	• CANopen®, DeviceNet • EtherCAT, EtherNet/IP, SSI • SAEJ1939, Profibus • PROFINET, POWERLINK
	GXMMS + incremental	ø58 mm	ø12 mm (blind hollow shaft) ø14 mm (blind hollow shaft) ø15 mm (blind hollow shaft)	ST ≤8192 / 13 bit MT ≤65536 / 16 bit	• CANopen®, DeviceNet • EtherCAT, EtherNet/IP, SSI • SAEJ1939, Profibus • PROFINET, POWERLINK
	GOMMH	ø58 mm	ø10 mm (through hollow shaft) ø12 mm (through hollow shaft) ø14 mm (through hollow shaft)	ST ≤8192 / 13 bit MT ≤65536 / 16 bit	• CANopen®, DeviceNet • EtherNet/IP • Profibus, PROFINET
	G0AMH	ø58 mm	ø10 mm (through hollow shaft) ø12 mm (through hollow shaft) ø14 mm (through hollow shaft)	ST ≤8192 / 13 bit	• CANopen®, DeviceNet • EtherNet/IP • Profibus, PROFINET
	GBM2W	ø58 mm	ø10 mm solid shaft (clamping flange) ø6 mm solid shaft (synchro flange)	ST 262144 / 18 bit MT 4096 / 12 bit	• Optional incremental outputs
	GBA2W	ø58 mm	ø10 mm solid shaft (clamping flange) ø6 mm solid shaft (synchro flange)	ST ≤262144 / 18 bit	• Diagnostic functions • Incremental outputs as option
	GBM2S	ø58 mm	ø12 mm (blind hollow shaft)	ST 262144 / 18 bit	• Diagnostic functions





			<p>ø14 mm (blind hollow shaft) ø15 mm (blind hollow shaft)</p>	MT 4096 / 12 bit	
	GBA2S	ø58 mm	<p>ø12 mm (blind hollow shaft) ø14 mm (blind hollow shaft) ø15 mm (blind hollow shaft)</p>	ST ≤262144 / 18 bit	<ul style="list-style-type: none"> • Diagnostic functions • Incremental outputs as option
	GBM2H	ø58 mm	<p>ø10 mm (through hollow shaft) ø12 mm (through hollow shaft) ø14 mm (through hollow shaft)</p>	ST 262144 / 18 bit MT 4096 / 12 bit	<ul style="list-style-type: none"> • Diagnostic functions
	GBA2H	ø58 mm	<p>ø10 mm (through hollow shaft) ø12 mm (through hollow shaft) ø14 mm (through hollow shaft)</p>	ST ≤262144 / 18 bit	<ul style="list-style-type: none"> • Diagnostic functions • Incremental outputs as option
	GBP5W - CANopen®	ø58 mm	<p>ø10 mm solid shaft (clamping flange) ø6 mm solid shaft (synchro flange)</p>	ST ≤262144 / 18 bit MT ≤16384 / 14 bit	<ul style="list-style-type: none"> • CANopen® • CANopen® Lift • Status indicator
	GBP5H - CANopen®	ø58 mm	<p>ø10 mm (through hollow shaft) ø12 mm (through hollow shaft) ø14 mm (through hollow shaft)</p>	ST ≤262144 / 18 bit MT ≤16384 / 14 bit	<ul style="list-style-type: none"> • CANopen® • LED status indicator
	GBMMW	ø58 mm	<p>ø10 mm solid shaft (clamping flange) ø6 mm solid shaft (synchro flange)</p>	ST ≤262144 / 18 bit MT ≤8192 / 13 bit	<ul style="list-style-type: none"> • CANopen®, DeviceNet • EtherCAT, EtherNet/IP, SSI • SAEJ1939, Profibus • PROFINET, POWERLINK
	GBAMW	ø58 mm	<p>ø10 mm solid shaft (clamping flange) ø6 mm solid shaft (synchro flange)</p>	ST ≤262144 / 18 bit	<ul style="list-style-type: none"> • CANopen®, DeviceNet • EtherCAT, EtherNet/IP, SSI • SAEJ1939, Profibus • PROFINET, POWERLINK
	GBMMS	ø58 mm	<p>ø12 mm (blind hollow shaft) ø14 mm (blind hollow shaft) ø15 mm (blind hollow shaft)</p>	ST ≤262144 / 18 bit MT ≤8192 / 13 bit	<ul style="list-style-type: none"> • CANopen®, DeviceNet • EtherCAT, EtherNet/IP, SSI • SAEJ1939, Profibus • PROFINET, POWERLINK
	GBAMS	ø58 mm	<p>ø12 mm (blind hollow shaft) ø14 mm (blind hollow shaft) ø15 mm (blind hollow shaft)</p>	ST ≤262144 / 18 bit	<ul style="list-style-type: none"> • CANopen®, DeviceNet • EtherCAT, EtherNet/IP, SSI • SAEJ1939, Profibus • PROFINET, POWERLINK
	GBMMH	ø58 mm	<p>ø10 mm (through hollow shaft) ø12 mm (through hollow shaft) ø14 mm (through hollow shaft)</p>	ST ≤262144 / 18 bit MT ≤8192 / 13 bit	<ul style="list-style-type: none"> • Total resolution 31 bit • CANopen®, DeviceNet • EtherNet/IP • Profibus, PROFINET

			shaft)		
	GBAMH	ø58 mm	ø10 mm (through hollow shaft) ø12 mm (through hollow shaft) ø14 mm (through hollow shaft)	ST ≤262144 / 18 bit	<ul style="list-style-type: none"> • CANopen®, DeviceNet • EtherNet/IP • Profibus, PROFINET
	BMMV 58K SSI - MAGRES hermetic	ø58 mm	ø10 mm solid shaft (clamping flange)	ST 4096 / 12 bit MT 8192 / 13 bit	<ul style="list-style-type: none"> • Material: stainless steel 1.4305 • Protection IP 69K
	BMMV 58K CANopen® - MAGRES hermetic	ø58 mm	ø10 mm solid shaft (clamping flange)	ST ≤4096 / 12 bit MT ≤262144 / 18 bit	<ul style="list-style-type: none"> • Material: stainless steel 1.4305 • Protection IP 69K
	BMMV 58K Profibus-DP - MAGRES hermetic	ø58 mm	ø10 mm solid shaft (clamping flange)	ST ≤8192 / 13 bit MT ≤65536 / 16 bit	<ul style="list-style-type: none"> • Material: stainless steel 1.4305 • Protection IP 69K
	BMMV 58K flexible - MAGRES hermetic	ø58 mm	ø10 mm solid shaft (clamping flange)	ST ≤4096 / 12 bit MT ≤262144 / 18 bit	<ul style="list-style-type: none"> • Protection IP 69K • CANopen®, DeviceNet • EtherCAT, EtherNet/IP • SAEJ1939, Profibus • PROFINET, POWERLINK
	GE244	ø58 mm	ø10 mm solid shaft	ST ≤16384 / 14 bit	<ul style="list-style-type: none"> • Stainless steel design • Gray or binary code
	GE404	ø58 mm	ø10 mm solid shaft	ST ≤16384 / 14 bit MT 4096 / 12 bit	<ul style="list-style-type: none"> • Stainless steel design
	GEMMH	ø58 mm	ø12 mm (through hollow shaft) ø14 mm (through hollow shaft)	ST ≤8192 / 13 bit MT ≤65536 / 16 bit	<ul style="list-style-type: none"> • Stainless steel design • CANopen® • DeviceNet • EtherNet-IP • Profibus • PROFINET
	GEMMW	ø58 mm	ø10 mm solid shaft (clamping flange) ø6 mm solid shaft (synchro flange)	ST ≤8192 / 13 bit MT ≤65536 / 16 bit	<ul style="list-style-type: none"> • Stainless steel design • CANopen® • DeviceNet • Profibus
	AMG 71	ø60 mm	ø6 mm solid shaft	ST 8192 / 13 bit MT 4096 / 12 bit	<ul style="list-style-type: none"> • ATEX II 3 G / 3 D

	AMG 81	ø115 mm	ø11 mm solid shaft	ST 8192 / 13 bit MT 4096 / 12 bit	<ul style="list-style-type: none"> • ATEX II 3 G / 3 D • SSI, Profibus, CANopen®
	AMG 11	ø115 mm	ø11 mm solid shaft	ST 8192 / 13 bit MT ≤65536 / 16 bit	<ul style="list-style-type: none"> • ATEX II 3 G / 3 D • SSI, Profibus, CANopen®, DeviceNet, PROFINET • Multiturn sensing with microGen technologie • Without gears and battery • Special protection against corrosion
	AMG 11 + FSL	ø115 mm	ø11 mm solid shaft	ST 8192 / 13 bit MT ≤65536 / 16 bit	<ul style="list-style-type: none"> • Encoder combination with centrifugal switch FSL • SSI, Profibus, CANopen®, DeviceNet • Multiturn sensing with microGen technologie • Without gears and battery • EURO flange B10 • Special protection against corrosion
	HMG 11	ø122 mm	ø16...20 mm (blind hollow shaft) ø17 mm (cone shaft 1:10)	ST 8192 / 13 bit MT ≤65536 / 16 bit	<ul style="list-style-type: none"> • ATEX II 3G/3D • SSI, Profibus, CANopen®, DeviceNet, PROFINET • Multiturn sensing with microGen technologie • Without gears and battery • Special protection against corrosion
	HMG10-B - SSI	ø105 mm	ø16...20 mm (blind hollow shaft) ø17 mm (cone shaft 1:10)	ST 1048576 / 20 bit MT 1048576 / 20 bit	<ul style="list-style-type: none"> • SSI • Protection against corrosion C5-M • Integrated speed switch • Multiturn sensing with Energy Harvesting technologie • Without gears and battery
	HMG10-T - SSI	ø105 mm	ø16...20 mm (through hollow shaft)	ST 1048576 / 20 bit MT 1048576 / 20 bit	<ul style="list-style-type: none"> • SSI • Protection against corrosion C5-M • Integrated speed switch • Multiturn sensing with Energy Harvesting technologie • Without gears and battery
	HMG10-B - CANopen®	ø105 mm	ø16...20 mm (blind hollow shaft) ø17 mm (cone shaft 1:10)	ST 8192 / 13 bit MT 65536 / 16 bit	<ul style="list-style-type: none"> • CANopen® • Protection against corrosion C5-M • Integrated speed switch • Multiturn sensing with Energy Harvesting technologie • Without gears and battery
	HMG10-B - DeviceNet	ø105 mm	ø16...20 mm (blind hollow shaft) ø17 mm (cone shaft 1:10)	ST 8192 / 13 bit MT 65536 / 16 bit	<ul style="list-style-type: none"> • DeviceNet • Protection against corrosion C5-M • Integrated speed switch • Multiturn sensing with Energy Harvesting technologie • Without gears and battery
	HMG10-B - Profibus DP	ø105 mm	ø16...20 mm (blind hollow shaft) ø17 mm (cone shaft 1:10)	ST 8192 / 13 bit MT 65536 / 16 bit	<ul style="list-style-type: none"> • Profibus-DPV0 or DPV2 • Protection against corrosion C5-M • Integrated speed switch • Multiturn sensing with Energy Harvesting technologie • Without gears and battery
	HMG10-T - CANopen®	ø105 mm	ø16...20 mm (through hollow shaft)	ST 8192 / 13 bit MT 65536 / 16 bit	<ul style="list-style-type: none"> • CANopen® • Protection against corrosion C5-M • Integrated speed switch • Multiturn sensing with Energy Harvesting technologie • Without gears and battery
	HMG10-T - DeviceNet	ø105 mm	ø16...20 mm (through hollow shaft)	ST 8192 / 13 bit MT 65536 / 16 bit	<ul style="list-style-type: none"> • DeviceNet • Protection against corrosion C5-M • Integrated speed switch • Multiturn sensing with Energy Harvesting technologie • Without gears and battery












					
	HMG10-T - Profibus DP	ø105 mm	ø16...20 mm (through hollow shaft)	ST 8192 / 13 bit MT 65536 / 16 bit	<ul style="list-style-type: none"> • Profibus-DPV0 or DPV2 • Protection against corrosion C5-M • Integrated speed switch • Multiturn sensing with Energy Harvesting technologie • Without gears and battery
	HMG10-B EtherCAT	ø105 mm	ø16...20 mm (blind hollow shaft) ø17 mm (cone shaft 1:10)	ST 8192 / 13 bit MT 65536 / 16 bit	<ul style="list-style-type: none"> • EtherCAT • Protection against corrosion C5-M • Integrated speed switch • Multiturn sensing with Energy Harvesting technologie • Without gears and battery
	HMG10-B EtherNet/IP	ø105 mm	ø16...20 mm (blind hollow shaft) ø17 mm (cone shaft 1:10)	ST 8192 / 13 bit MT 65536 / 16 bit	<ul style="list-style-type: none"> • EtherNet/IP • Protection against corrosion C5-M • Integrated speed switch • Multiturn sensing with Energy Harvesting technologie • Without gears and battery
	HMG10-B PROFINET	ø105 mm	ø16...20 mm (blind hollow shaft) ø17 mm (cone shaft 1:10)	ST 8192 / 13 bit MT 65536 / 16 bit	<ul style="list-style-type: none"> • PROFINET • Protection against corrosion C5-M • Integrated speed switch • Multiturn sensing with Energy Harvesting technologie • Without gears and battery
	HMG10-T EtherCAT	ø105 mm	ø16...20 mm (through hollow shaft)	ST 8192 / 13 bit MT 65536 / 16 bit	<ul style="list-style-type: none"> • EtherCAT • Protection against corrosion C5-M • Integrated speed switch • Multiturn sensing with Energy Harvesting technologie • Without gears and battery
	HMG10-T EtherNet/IP	ø105 mm	ø16...20 mm (through hollow shaft)	ST 8192 / 13 bit MT 65536 / 16 bit	<ul style="list-style-type: none"> • EtherNet/IP • Protection against corrosion C5-M • Integrated speed switch • Multiturn sensing with Energy Harvesting technologie • Without gears and battery
	HMG10-T PROFINET	ø105 mm	ø16...20 mm (through hollow shaft)	ST 8192 / 13 bit MT 65536 / 16 bit	<ul style="list-style-type: none"> • PROFINET • Protection against corrosion C5-M • Integrated speed switch • Multiturn sensing with Energy Harvesting technologie • Without gears and battery
	PMG10 - SSI	ø115 mm	ø11 mm solid shaft	ST 1048576 / 20 bit MT 1048576 / 20 bit	<ul style="list-style-type: none"> • SSI • Protection against corrosion C5-M • Integrated speed switch • Multiturn sensing with Energy Harvesting technologie • Without gears and battery
	PMG10 - CANopen®	ø115 mm	ø11 mm solid shaft	ST 8192 / 13 bit MT 65536 / 16 bit	<ul style="list-style-type: none"> • CANopen® • Protection against corrosion C5-M • Integrated speed switch • Multiturn sensing with Energy Harvesting technologie • Without gears and battery
	PMG10 - DeviceNet	ø115 mm	ø11 mm solid shaft	ST 8192 / 13 bit MT 65536 / 16 bit	<ul style="list-style-type: none"> • DeviceNet • Protection against corrosion C5-M • Integrated speed switch • Multiturn sensing with Energy Harvesting technologie • Without gears and battery
	PMG10 - Profibus DP	ø115 mm	ø11 mm solid shaft	ST 8192 / 13 bit MT 65536 / 16 bit	<ul style="list-style-type: none"> • Profibus-DPV0 or DPV2 • Protection against corrosion C5-M



					16 bit	<ul style="list-style-type: none"> • Integrated speed switch • Multiturn sensing with Energy Harvesting technologie • Without gears and battery
	PMG10 - EtherCAT	ø115 mm	ø11 mm solid shaft		ST 8192 / 13 bit MT 65536 / 16 bit	<ul style="list-style-type: none"> • EtherCAT • Protection against corrosion C5-M • Integrated speed switch • Multiturn sensing with Energy Harvesting technologie • Without gears and battery
	PMG10 - EtherNet/IP	ø115 mm	ø11 mm solid shaft		ST 8192 / 13 bit MT 65536 / 16 bit	<ul style="list-style-type: none"> • EtherNet/IP • Protection against corrosion C5-M • Integrated speed switch • Multiturn sensing with Energy Harvesting technologie • Without gears and battery
	PMG10 - PROFINET	ø115 mm	ø11 mm solid shaft		ST 8192 / 13 bit MT 65536 / 16 bit	<ul style="list-style-type: none"> • PROFINET • Protection against corrosion C5-M • Integrated speed switch • Multiturn sensing with Energy Harvesting technologie • Without gears and battery
	HMG 11 + ESL 90	ø122 mm	ø16...20 mm (blind hollow shaft) ø17 mm (cone shaft 1:10)		ST 8192 / 13 bit MT ≤65536 / 16 bit	<ul style="list-style-type: none"> • Encoder combination with electronic speed switch ESL • SSI, Profibus, CANopen®, DeviceNet • Multiturn sensing with microGen technologie • Without gears and battery • Special protection against corrosion
	HMG 11 + ESL 93	ø122 mm	ø16...20 mm (blind hollow shaft) ø17 mm (cone shaft 1:10)		ST 8192 / 13 bit MT ≤65536 / 16 bit	<ul style="list-style-type: none"> • Encoder combination with electronic speed switch ESL • SSI, Profibus, CANopen®, DeviceNet • Multiturn sensing with microGen technologie • Without gears and battery • Special protection against corrosion
	HMG 11 + FSL	ø122 mm	ø16...20 mm (blind hollow shaft) ø17 mm (cone shaft 1:10)		ST 8192 / 13 bit MT ≤65536 / 16 bit	<ul style="list-style-type: none"> • Encoder combination with centrifugal switch FSL • SSI, Profibus, CANopen®, DeviceNet • Multiturn sensing with microGen technologie • Without gears and battery • Special protection against corrosion
	HMG 161	ø160 mm	ø38...70 mm (through hollow shaft)		ST 8192 / 13 bit MT ≤65536 / 16 bit	<ul style="list-style-type: none"> • ATEX II 3 G / 3 D • SSI, Profibus, CANopen®, DeviceNet • Multiturn sensing with microGen technologie • Without gears and battery • Special protection against corrosion
	G1M2H	ø90 mm	ø25.4 mm (through hollow shaft)		ST 8192 / 13 bit MT 4096 / 12 bit	<ul style="list-style-type: none"> • Diagnostic functions
	G1MMH	ø90 mm	ø16...25.4 mm (through hollow shaft)		ST ≤8192 / 13 bit MT ≤65536 / 16 bit	<ul style="list-style-type: none"> • CANopen® • DeviceNet • Profibus
	G2M2H	ø116 mm	ø50.8 mm (through hollow shaft)		ST 8192 / 13 bit MT 4096 / 12 bit	<ul style="list-style-type: none"> • Diagnostic functions

					
	G2MMH	ø116 mm	ø50.8 mm (through hollow shaft)	ST ≤8192 / 13 bit MT ≤65536 / 16 bit	<ul style="list-style-type: none"> • CANopen® • DeviceNet • Profibus
	X 700 - SSI Multiturn	ø70 mm	ø10 mm solid shaft (clamping flange)	ST 16384 / 14 bit MT 4096 / 12 bit	<ul style="list-style-type: none"> • Ex II 2D/2G (ATEX) • SSI
	X 700 - SSI Singleturn	ø70 mm	ø10 mm solid shaft (clamping flange)	ST 16384 / 14 bit	<ul style="list-style-type: none"> • Ex II 2D/2G (ATEX) • SSI
	X 700 - CANopen®	ø70 mm	ø10 mm solid shaft (clamping flange)	ST ≤262144 / 18 bit MT ≤16384 / 14 bit	<ul style="list-style-type: none"> • Ex II 2D/2G (ATEX) • CANopen®
	X 700 - Profibus	ø70 mm	ø10 mm solid shaft (clamping flange)	ST ≤8192 / 13 bit MT ≤65536 / 16 bit	<ul style="list-style-type: none"> • Ex II 2D/2G (ATEX) • Profibus
	ATD 07S A 4	ø24 mm	ø4 mm (blind hollow shaft)	ST 4096 / 12 bit	<ul style="list-style-type: none"> • SSI • Gray code • Mini encoder
	ATD 2AA 4 Y 7	ø58 mm	ø10 mm (through hollow shaft) ø12 mm (through hollow shaft) ø14 mm (through hollow shaft)	ST 16384 / 14 bit MT 1024 / 10 bit	<ul style="list-style-type: none"> • Analog output • Multiturn
	ATD 2AB14 Y 1	ø58 mm	ø6 mm solid shaft	ST 16384 / 14 bit	<ul style="list-style-type: none"> • Analog output • Singleturn
	ATD 2S A 4 Y 7	ø58 mm	ø10 mm (through hollow shaft) ø12 mm (through hollow shaft) ø14 mm (through hollow shaft)	ST ≤16384 / 14 bit MT ≤16777216 / 24 bit	<ul style="list-style-type: none"> • SSI • Diagnostic functions • Incremental outputs as option
	ATD 2S B14 Y21	ø58 mm	ø10 mm solid shaft (clamping flange)	ST 8192 / 13 bit	<ul style="list-style-type: none"> • SSI • Gray code

	ATD 2S B14 Y23	ø58 mm	ø10 mm solid shaft (clamping flange)	ST ≤16384 / 14 bit MT ≤16777216 / 24 bit	<ul style="list-style-type: none"> • SSI • Gray or binary code • Incremental outputs as option
	ATD 2S B14 Y24	ø58 mm	ø10 mm solid shaft	ST 4096 / 12 bit MT 4096 / 12 bit	<ul style="list-style-type: none"> • SSI + Resolver • Gray or binary code • Magnetic sensing
	ATD 4S A4 Y10	ø80 mm	ø20 mm (through hollow shaft) ø22 mm (through hollow shaft) ø25 mm (through hollow shaft) ø27 mm (through hollow shaft)	ST ≤32768 / 15 bit MT ≤16777216 / 24 bit	<ul style="list-style-type: none"> • SSI • Gray or binary code • Incremental outputs as option
	ATD2AH00	ø58 mm	ø10 mm (through hollow shaft) ø12 mm (through hollow shaft) ø14 mm (through hollow shaft)	ST 16384 / 14 bit	<ul style="list-style-type: none"> • Analog output • Singleturn • Flexible cable concept
	BFF CANopen®	ø58 mm	ø12 mm (blind hollow shaft)	ST ≤8192 / 13 bit	<ul style="list-style-type: none"> • Singleturn • CANopen®
	BFF parallel	ø58 mm	ø12 mm (blind hollow shaft)	ST ≤4096 / 12 bit	<ul style="list-style-type: none"> • Singleturn • Parallel
	BFF SSI	ø58 mm	ø12 mm (blind hollow shaft)	ST 4096 / 12 bit	<ul style="list-style-type: none"> • Singleturn • SSI
	BFG CANopen®	ø58 mm	ø12 mm (through hollow shaft)	ST ≤8192 / 13 bit	<ul style="list-style-type: none"> • Singleturn • CANopen®
	BFG parallel	ø58 mm	ø12 mm (through hollow shaft)	ST ≤4096 / 12 bit	<ul style="list-style-type: none"> • Singleturn • Parallel
	BMMS K23 CANopen® - MAGRES	-	-	0.1 mm/step	<ul style="list-style-type: none"> • Cable transducer max. 2.3 m • CANopen® • Redundant
	BMMS K23 SSI - MAGRES	-	-	0.0585 mm/step	<ul style="list-style-type: none"> • Cable transducer max. 2.3 m • SSI

	BMMS K34 CANopen® - MAGRES redundant	-	-	0.1 mm/step	<ul style="list-style-type: none"> • Cable transducer max. 3.4 m • CANopen® • Redundant
	BMMS K34 SSI - MAGRES	-	-	0.0589 mm/step	<ul style="list-style-type: none"> • Cable transducer max. 2.3 m • SSI
	BMMS K50 CANopen® - MAGRES redundant	-	-	0.1 mm/step	<ul style="list-style-type: none"> • Cable transducer max. 5 m • CANopen® • Redundant
	BMMS K50 SSI - MAGRES	-	-	0.0591 mm/step	<ul style="list-style-type: none"> • Cable transducer max. 5 m • SSI
	BFG SSI	ø58 mm	ø12 mm (through hollow shaft)	ST 4096 / 12 bit	<ul style="list-style-type: none"> • Singleturn • SSI
	GXN1H	ø75 mm	ø14 mm (through hollow shaft)	ST ≤4096 / 12 bit MT ≤4096 / 12 bit	<ul style="list-style-type: none"> • 1024 cams • 16 outputs
	GXN1W	ø58 mm	ø10 mm solid shaft (clamping flange) ø6 mm solid shaft (synchro flange)	ST ≤4096 / 12 bit MT ≤4096 / 12 bit	<ul style="list-style-type: none"> • 1024 cams • 16 outputs
	GA210 - parallel	ø58 mm	ø10 mm solid shaft	ST 1024 / 10 bit	<ul style="list-style-type: none"> • Reset input
	GA211 - parallel	ø58 mm	ø6 mm solid shaft	ST 1024 / 10 bit	<ul style="list-style-type: none"> • Reset input
	GXP1H - parallel	ø75 mm	ø14 mm (through hollow shaft)	ST ≤4096 / 12 bit MT ≤4096 / 12 bit	<ul style="list-style-type: none"> • Programmable
	GXP1W - parallel	ø58 mm	ø10 mm solid shaft (clamping flange) ø6 mm solid shaft (synchro flange)	ST ≤4096 / 12 bit MT ≤4096 / 12 bit	<ul style="list-style-type: none"> • Programmable

	GXA1W - parallel	ø58 mm	ø10 mm solid shaft (clamping flange) ø6 mm solid shaft (synchro flange)	ST 2880	<ul style="list-style-type: none"> • Gray excess code
	BMMS K23 analog / cable-pull - MAGRES redundant	-	-	-	<ul style="list-style-type: none"> • Cable transducer max. 2.3 m • Analog • Redundant
	BMMS K50 analog / cable-pull - MAGRES redundant	-	-	-	<ul style="list-style-type: none"> • Cable transducer max. 5 m • Analog • Redundant
	BMMS M50 analog / cable-pull - MAGRES redundant	-	-	-	<ul style="list-style-type: none"> • Cable transducer max. 5 m • Analog • Redundant
	BMMS M75 CANopen® / cable-pull - MAGRES	-	-	0.1 mm/step	<ul style="list-style-type: none"> • Cable transducer max. 7.5 m • CANopen®
	BMMS M75 analog / cable-pull - MAGRES redundant	-	-	-	<ul style="list-style-type: none"> • Cable transducer max. 7.5 m • Analog • Redundant
	MQR 3000F - HDmag flex	-	ø300...3183 mm (through hollow shaft)	-	<ul style="list-style-type: none"> • "Quasi-absolut", i. e. providing a valid absolute position only after initialization • Integrated signal processing • SSI, resolution up to 20 bit • Magnetic sensing • Protection IP 67 • Incremental outputs as option
	MQR 350A - HDmag flex	-	ø90...300 mm (through hollow shaft)	-	<ul style="list-style-type: none"> • "Quasi-absolut", i. e. providing a valid absolute position only after initialization • Integrated signal processing • SSI, resolution up to 20 bit • Magnetic sensing • Protection IP 67 • Incremental outputs as option
	MHAD 50 - HDmag	-	ø30 mm (through hollow shaft)	-	<ul style="list-style-type: none"> • Resolution up to 16 bit • Protection IP 67 • SSI, CANopen® • Incremental outputs as option
	MHAP 100 - HDmag	ø101.3 mm	ø16...80 mm (through hollow shaft)	-	<ul style="list-style-type: none"> • Resolution up to 17 bit • Protection IP 67 • SSI • Additional incremental output
	MHAP 200 - HDmag	ø203.1 mm	ø50...180 mm (through hollow shaft)	-	<ul style="list-style-type: none"> • Resolution up to 17 bit • Protection IP 67 • SSI • Additional incremental output

	MHAP 400 - HDmag	$\varnothing 406.8$ mm	$\varnothing 70 \dots 340$ mm (through hollow shaft)	-	<ul style="list-style-type: none"> • Resolution up to 17 bit • Protection IP 67 • SSI • Additional incremental output
	BMMK 58 flexible - MAGRES	$\varnothing 58$ mm	$\varnothing 12$ mm (magnet bore)	ST ≤ 4096 / 12 bit MT ≤ 262144 / 18 bit	<ul style="list-style-type: none"> • Encoder kit multiturn • CANopen®, DeviceNet, Profibus • EtherCAT, EtherNet/IP • PROFINET, POWERLINK
	BMSK 58 flexible - MAGRES	$\varnothing 58$ mm	$\varnothing 12$ mm (magnet bore)	ST ≤ 4096 / 12 bit	<ul style="list-style-type: none"> • Encoder kit singleturn • CANopen®, DeviceNet, Profibus • EtherCAT, EtherNet/IP • PROFINET, POWERLINK

Format adjustment

Sample picture	Product family	Dimensions	Shaft type	Features
	BG440 - planetary gearing	ø52 x 155.5 mm (BG440.25) ø52 x 180.5 mm (BG440.50)	ø12 mm solid shaft	• EC-motor with planetary gearing• for automated spindle positioning cycles
	BG650 - planetary gearing	ø52 x 176.5 mm (BG650.25) ø52 x 201.5 mm (BG650.50) ø52 x 226.5 mm (BG650.75)	ø12 mm solid shaft	• EC-motor with planetary gearing• for automated spindle positioning cycles
	GK473	22.6 x 99 x 114.5 mm	-	• Fieldbus interface for spindle position displays• CANopen®, DeviceNet, Profibus-DP
	MSBA42	ø42 mm	ø8 mm solid shaft	• DC motor, brush-type• Absolute multiturn position detection, CANopen®
	MSIA 42 CANopen	42 x 95 mm	ø6 mm solid shaft ø8 mm solid shaft	• DC motor, brushless• Absolute multiturn position detection, CANopen®
	MSIA 42 Profibus	42 x 95 mm	ø6 mm solid shaft ø8 mm solid shaft	• DC motor, brushless• Absolute multiturn position detection, Profibus-DP
	MSIA 68 bevel gear transmission V6 CANopen	ø68 mm	ø12 mm (through hollow shaft)	• DC motor, brushless• Absolute multiturn position detection, CANopen®
	MSIA 68 bevel gear transmission V6 Profibus	ø68 mm	ø12 mm (through hollow shaft)	• DC motor, brushless• Absolute multiturn position detection, Profibus-DP
	MSIA 68 bevel gear transmission W3 CANopen	ø68 mm	ø12 mm (through hollow shaft)	• DC motor, brushless• Absolute multiturn position detection, CANopen®
	MSIA 68 bevel gear transmission W3 Profibus	ø68 mm	ø12 mm (through hollow shaft)	• DC motor, brushless• Absolute multiturn position detection, Profibus-DP
	MSIA 68 planetary gear transmission CANopen	ø68 mm	ø10 mm solid shaft ø14 mm solid shaft	• DC motor, brushless• Absolute multiturn position detection, CANopen®

				
	MSIA 68 planetary gear transmission Profibus	ø68 mm	ø10 mm solid shaft ø14 mm solid shaft	• DC motor, brushless• Absolute multiturn position detection, Profibus-DP
	MSIA 68 spur gear transmission CANopen	ø69 mm	ø10 mm solid shaft	• DC motor, brushless• Absolute multiturn position detection, CANopen®
	MSIA 68 spur gear transmission Profibus	ø69 mm	ø10 mm solid shaft	• DC motor, brushless• Absolute multiturn position detection, Profibus-DP
	N 150	37 x 75 x 45 mm	ø14 mm (through hollow shaft)	• Through hollow shaft max. ø14 mm, manual format alignment• Display LCD two lines, interface RS485
	N 152	37 x 75 x 45 mm	ø14 mm (through hollow shaft)	• Through hollow shaft max. ø14 mm, automated format alignment• Display LCD two lines, interface RS485
	N 155	37 x 75 x 29 mm	-	• Plug-on mount, enter key, manual format alignment• Display LCD two lines, interface RS485
	N 242	144 x 144 x 116.5 mm	-	• Manual and automated format alignment• Display LCD two lines, interface RS485

Format adjustment




Sample picture	Product family	Dimensions	Shaft type	Features
	BG440 - planetary gearing	ø52 x 155.5 mm (BG440.25) ø52 x 180.5 mm (BG440.50)	ø12 mm solid shaft	• EC-motor with planetary gearing• for automated spindle positioning cycles
	BG650 - planetary gearing	ø52 x 176.5 mm (BG650.25) ø52 x 201.5 mm (BG650.50) ø52 x 226.5 mm (BG650.75)	ø12 mm solid shaft	• EC-motor with planetary gearing• for automated spindle positioning cycles
	GK473	22.6 x 99 x 114.5 mm	-	• Fieldbus interface for spindle position displays• CANopen®, DeviceNet, Profibus-DP
	MSBA42	ø42 mm	ø8 mm solid shaft	• DC motor, brush-type• Absolute multiturn position detection, CANopen®
	MSIA 42 CANopen	42 x 95 mm	ø6 mm solid shaft ø8 mm solid shaft	• DC motor, brushless• Absolute multiturn position detection, CANopen®
	MSIA 42 Profibus	42 x 95 mm	ø6 mm solid shaft ø8 mm solid shaft	• DC motor, brushless• Absolute multiturn position detection, Profibus-DP
	MSIA 68 bevel gear transmission V6 CANopen	ø68 mm	ø12 mm (through hollow shaft)	• DC motor, brushless• Absolute multiturn position detection, CANopen®
	MSIA 68 bevel gear transmission V6 Profibus	ø68 mm	ø12 mm (through hollow shaft)	• DC motor, brushless• Absolute multiturn position detection, Profibus-DP
	MSIA 68 bevel gear transmission W3 CANopen	ø68 mm	ø12 mm (through hollow shaft)	• DC motor, brushless• Absolute multiturn position detection, CANopen®
	MSIA 68 bevel gear transmission W3 Profibus	ø68 mm	ø12 mm (through hollow shaft)	• DC motor, brushless• Absolute multiturn position detection, Profibus-DP
	MSIA 68 planetary gear transmission CANopen	ø68 mm	ø10 mm solid shaft ø14 mm solid shaft	• DC motor, brushless• Absolute multiturn position detection, CANopen®

				
	MSIA 68 planetary gear transmission Profibus	ø68 mm	ø10 mm solid shaft ø14 mm solid shaft	• DC motor, brushless• Absolute multiturn position detection, Profibus-DP
	MSIA 68 spur gear transmission CANopen	ø69 mm	ø10 mm solid shaft	• DC motor, brushless• Absolute multiturn position detection, CANopen®
	MSIA 68 spur gear transmission Profibus	ø69 mm	ø10 mm solid shaft	• DC motor, brushless• Absolute multiturn position detection, Profibus-DP
	N 150	37 x 75 x 45 mm	ø14 mm (through hollow shaft)	• Through hollow shaft max. ø14 mm, manual format alignment• Display LCD two lines, interface RS485
	N 152	37 x 75 x 45 mm	ø14 mm (through hollow shaft)	• Through hollow shaft max. ø14 mm, automated format alignment• Display LCD two lines, interface RS485
	N 155	37 x 75 x 29 mm	-	• Plug-on mount, enter key, manual format alignment• Display LCD two lines, interface RS485
	N 242	144 x 144 x 116.5 mm	-	• Manual and automated format alignment• Display LCD two lines, interface RS485

Productfinder Acceleration sensors

	GAM900	<ul style="list-style-type: none"> • Analog, CANopen®
	GAM900S	<ul style="list-style-type: none"> • For safety applications according to SIL2/PLd • Analog, CANopen®

Precise and compact inclination sensors

	GIM500R - 1-dimensional	Typ. $\pm 0.1^\circ$	<ul style="list-style-type: none"> • 1-dimensional • Analog • CANopen® • SAE J1939
	GIM500R - 2-dimensional	Typ. $\pm 0.1^\circ$	<ul style="list-style-type: none"> • 2-dimensional • Analog • CANopen® • SAE J1939
	GNAMG	$\pm 0.1^\circ$ (measuring range 15°) $\pm 0.2^\circ$ (measuring range $30^\circ, 60^\circ, 360^\circ$)	<ul style="list-style-type: none"> • 1- and 2-dimensional • CANopen® • Profibus

Industrial cameras

	EXG50	2592 × 1944 px	Aptina MT9P031	1/2.5" progressive scan CMOS, rolling shutter	Gigabit Ethernet, Transfer rate 1000 Mbits/sec, Connector: 8P8C Modular Jack (RJ45), screwable type	Mono
	EXG50c	2592 × 1944 px	Aptina MT9P031	1/2.5" progressive scan CMOS, rolling shutter	Gigabit Ethernet, Transfer rate 1000 Mbits/sec, Connector: 8P8C Modular Jack (RJ45), screwable type	RGB YUV Mono
	HXC13	1280 × 1024 px	Cypress Lupa-1300-2	1.4" progressive scan CMOS, global shutter	Camera Link [®] Full, connector: 2 x Standard MDR26	Mono
	HXC20	2048 × 1088 px	ams (CMOSIS) CMV2000	2/3" progressive scan CMOS, global shutter	Camera Link [®] Full, connector: 2 x Standard SDR26 (Mini CL)	Mono
	HXC20NI R	2048 × 1088 px	ams (CMOSIS) CMV2000	2/3" progressive scan CMOS, global shutter	Camera Link [®] Full, connector: 2 x Standard SDR26 (Mini CL)	Mono NIR
	HXC20c	2048 × 1088 px	ams (CMOSIS) CMV2000	2/3" progressive scan CMOS, global shutter	Camera Link [®] Full, connector: 2 x Standard SDR26 (Mini CL)	Raw Bayer
	HXC40	2048 × 2048 px	ams (CMOSIS) CMV4000	1" progressive scan CMOS, global shutter	Camera Link [®] Full, connector: 2 x Standard SDR26 (Mini CL)	Mono

	HXC40NI R	2048 × 2048 px	ams (CMOSIS) CMV4000	1" progressive scan CMOS, global shutter	Camera Link [®] Full, connector: 2 x Standard SDR26 (Mini CL)	Mono NIR
	HXC40c	2048 × 2048 px	ams (CMOSIS) CMV4000	1" progressive scan CMOS, global shutter	Camera Link [®] Full, connector: 2 x Standard SDR26 (Mini CL)	Raw Bayer
	HXG20	2048 × 1088 px	ams (CMOSIS) CMV2000	2/3" progressive scan CMOS, global shutter	Dual Gigabit Ethernet, Transfer rate 2000 Mbits/sec, Connector: 2 x 8P8C Modular Jack (RJ45), screwable type	Mono
	HXG20N IR	2048 × 1088 px	ams (CMOSIS) CMV2000	2/3" progressive scan CMOS, global shutter	Dual Gigabit Ethernet, Transfer rate 2000 Mbits/sec, Connector: 2 x 8P8C Modular Jack (RJ45), screwable type	Mono NIR
	HXG20c	2048 × 1088 px	ams (CMOSIS) CMV2000	2/3" progressive scan CMOS, global shutter	Dual Gigabit Ethernet, Transfer rate 2000 Mbits/sec, Connector: 2 x 8P8C Modular Jack (RJ45), screwable type	Raw Bayer
	HXG40	2048 × 2048 px	ams (CMOSIS) CMV4000	1" progressive scan CMOS, global shutter	Dual Gigabit Ethernet, Transfer rate 2000 Mbits/sec, Connector: 2 x 8P8C Modular Jack (RJ45), screwable type	Mono
	HXG40N IR	2048 × 2048 px	ams (CMOSIS) CMV4000	1" progressive scan CMOS, global shutter	Dual Gigabit Ethernet, Transfer rate 2000 Mbits/sec, Connector: 2 x 8P8C Modular Jack (RJ45), screwable type	Mono NIR


	HXG40c	2048 × 2048 px	ams (CMOSIS) CMV4000	1" progressive scan CMOS, global shutter	Dual Gigabit Ethernet, Transfer rate 2000 Mbits/sec, Connector: 2 x 8P8C Modular Jack (RJ45), screwable type	Raw Bayer
	LXC-120C	4096 × 3072 px	ams (CMOSIS) CMV12000	APS-C progressive scan CMOS, global shutter	Camera Link® Full, connector: 2 x Standard SDR26 (Mini CL)	Raw Bayer
	LXC-120M	4096 × 3072 px	ams (CMOSIS) CMV12000	APS-C progressive scan CMOS, global shutter	Camera Link® Full, connector: 2 x Standard SDR26 (Mini CL)	Mono
	LXC-200C	5120 × 3840 px	ams (CMOSIS) CMV20000	35 mm progressive scan CMOS, global shutter	Camera Link® Full, connector: 2 x Standard SDR26 (Mini CL)	Raw Bayer
	LXC-200M	5120 × 3840 px	ams (CMOSIS) CMV20000	35 mm progressive scan CMOS, global shutter	Camera Link® Full, connector: 2 x Standard SDR26 (Mini CL)	Mono
	LXC-20C	2048 × 1088 px	ams (CMOSIS) CMV2000 V3	2/3" progressive scan CMOS, global shutter	Camera Link® Full, connector: 2 x Standard SDR26 (Mini CL)	Raw Bayer
	LXC-20M	2048 × 1088 px	ams (CMOSIS) CMV2000 V3	2/3" progressive scan CMOS, global shutter	Camera Link® Full, connector: 2 x Standard SDR26 (Mini CL)	Mono





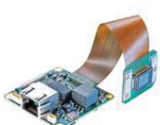
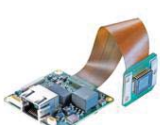
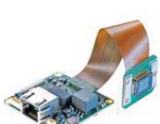
	LXC-250C	5120 × 5120 px	ON Semiconductor PYTHON 25K	APS-H progressive scan CMOS, global shutter	Camera Link [®] Full, connector: 2 x Standard SDR26 (Mini CL)	Raw Bayer
	LXC-250M	5120 × 5120 px	ON Semiconductor PYTHON 25K	APS-H progressive scan CMOS, global shutter	Camera Link [®] Full, connector: 2 x Standard SDR26 (Mini CL)	Mono
	LXC-40C	2048 × 2048 px	ams (CMOSIS) CMV4000 V3	1" progressive scan CMOS, global shutter	Camera Link [®] Full, connector: 2 x Standard SDR26 (Mini CL)	Raw Bayer
	LXC-40M	2048 × 2048 px	ams (CMOSIS) CMV4000 V3	1" progressive scan CMOS, global shutter	Camera Link [®] Full, connector: 2 x Standard SDR26 (Mini CL)	Mono
	LXC-500C	7920 × 6004 px	ams (CMOSIS) CMV50000	35 mm progressive scan CMOS, global shutter	Camera Link [®] Full, connector: 2 x Standard SDR26 (Mini CL)	Raw Bayer
	LXC-500M	7920 × 6004 px	ams (CMOSIS) CMV50000	35 mm progressive scan CMOS, global shutter	Camera Link [®] Full, connector: 2 x Standard SDR26 (Mini CL)	Mono
	LXG-120C	4096 × 3072 px	ams (CMOSIS) CMV12000	APS-C progressive scan CMOS, global shutter	Dual Gigabit Ethernet, Transfer rate 2000 Mb/s/sec, Connector: 2 x 8P8C Modular Jack (RJ45), screwable type	Raw Bayer

	LXG-120M	4096 × 3072 px	ams (CMOSIS) CMV12000	APS-C progressive scan CMOS, global shutter	Dual Gigabit Ethernet, Transfer rate 2000 Mbits/sec, Connector: 2 x 8P8C Modular Jack (RJ45), screwable type	Mono
	LXG-120M.3D	4096 × 3072 px	ams (CMOSIS) CMV12000	APS-C progressive scan CMOS, global shutter	Gigabit Ethernet, Transfer rate 1000 Mbits/sec, Connector: 8P8C Modular Jack (RJ45), screwable type	Mono
	LXG-120M.P	4096 × 3072 px	ams (CMOSIS) CMV12000	APS-C progressive scan CMOS, global shutter	Gigabit Ethernet, Transfer rate 1000 Mbits/sec, Connector: 8P8C Modular Jack (RJ45), screwable type	Mono
	LXG-120M.PS	4096 × 3072 px	ams (CMOSIS) CMV12000	APS-C progressive scan CMOS, global shutter	Gigabit Ethernet, Transfer rate 1000 Mbits/sec, Connector: 8P8C Modular Jack (RJ45), screwable type	Mono
	LXG-200C	5120 × 3840 px	ams (CMOSIS) CMV20000	35 mm progressive scan CMOS, global shutter	Dual Gigabit Ethernet, Transfer rate 2000 Mbits/sec, Connector: 2 x 8P8C Modular Jack (RJ45), screwable type	Raw Bayer
	LXG-200M	5120 × 3840 px	ams (CMOSIS) CMV20000	35 mm progressive scan CMOS, global shutter	Dual Gigabit Ethernet, Transfer rate 2000 Mbits/sec, Connector: 2 x 8P8C Modular Jack (RJ45), screwable type	Mono
	LXG-200M.P	5120 × 3840 px	ams (CMOSIS) CMV20000	35 mm progressive scan CMOS, global shutter	Gigabit Ethernet, Transfer rate 1000 Mbits/sec, Connector: 8P8C Modular Jack (RJ45), screwable type	Mono

	LXG-20C	2048 × 1088 px	ams (CMOSIS) CMV2000 V3	2/3" progressive scan CMOS, global shutter	Dual Gigabit Ethernet, Transfer rate 2000 Mbits/sec, Connector: 2 x 8P8C Modular Jack (RJ45), screwable type	Raw Bayer
	LXG-20C.P	2048 × 1088 px	ams (CMOSIS) CMV2000 V3	2/3" progressive scan CMOS, global shutter	Gigabit Ethernet, Transfer rate 1000 Mbits/sec, Connector: 8P8C Modular Jack (RJ45), screwable type	Raw Bayer
	LXG-20M	2048 × 1088 px	ams (CMOSIS) CMV2000 V3	2/3" progressive scan CMOS, global shutter	Dual Gigabit Ethernet, Transfer rate 2000 Mbits/sec, Connector: 2 x 8P8C Modular Jack (RJ45), screwable type	Mono
	LXG-20M.3D	2048 × 1088 px	ams (CMOSIS) CMV2000 V3	2/3" progressive scan CMOS, global shutter	Gigabit Ethernet, Transfer rate 1000 Mbits/sec, Connector: 8P8C Modular Jack (RJ45), screwable type	Mono
	LXG-20M.PS	2048 × 1088 px	ams (CMOSIS) CMV2000 V3	2/3" progressive scan CMOS, global shutter	Gigabit Ethernet, Transfer rate 1000 Mbits/sec, Connector: 8P8C Modular Jack (RJ45), screwable type	Mono
	LXG-20NIR	2048 × 1088 px	ams (CMOSIS) CMV2000 V3	2/3" progressive scan CMOS, global shutter	Dual Gigabit Ethernet, Transfer rate 2000 Mbits/sec, Connector: 2 x 8P8C Modular Jack (RJ45), screwable type	Mono NIR
	LXG-250C	5120 × 5120 px	ON Semiconductor PYTHON 25K	APS-H progressive scan CMOS, global shutter	Dual Gigabit Ethernet, Transfer rate 2000 Mbits/sec, Connector: 2 x 8P8C Modular Jack (RJ45), screwable type	Raw Bayer

	LXG-250M	5120 × 5120 px	ON Semiconductor PYTHON 25K	APS-H progressive scan CMOS, global shutter	Dual Gigabit Ethernet, Transfer rate 2000 Mbits/sec, Connector: 2 x 8P8C Modular Jack (RJ45), screwable type	Mono
	LXG-40C	2048 × 2048 px	ams (CMOSIS) CMV4000 V3	1" progressive scan CMOS, global shutter	Dual Gigabit Ethernet, Transfer rate 2000 Mbits/sec, Connector: 2 x 8P8C Modular Jack (RJ45), screwable type	Raw Bayer
	LXG-40M	2048 × 2048 px	ams (CMOSIS) CMV4000 V3	1" progressive scan CMOS, global shutter	Dual Gigabit Ethernet, Transfer rate 2000 Mbits/sec, Connector: 2 x 8P8C Modular Jack (RJ45), screwable type	Mono
	LXG-40M.P	2048 × 2048 px	ams (CMOSIS) CMV4000 V3	1" progressive scan CMOS, global shutter	Gigabit Ethernet, Transfer rate 1000 Mbits/sec, Connector: 8P8C Modular Jack (RJ45), screwable type	Mono
	LXG-40NIR	2048 × 2048 px	ams (CMOSIS) CMV4000 V3	1" progressive scan CMOS, global shutter	Dual Gigabit Ethernet, Transfer rate 2000 Mbits/sec, Connector: 2 x 8P8C Modular Jack (RJ45), screwable type	Mono NIR
	LXG-500C	7920 × 6004 px	ams (CMOSIS) CMV50000	35 mm progressive scan CMOS, global shutter	Dual Gigabit Ethernet, Transfer rate 2000 Mbits/sec, Connector: 2 x 8P8C Modular Jack (RJ45), screwable type	Raw Bayer
	LXG-500M	7920 × 6004 px	ams (CMOSIS) CMV50000	35 mm progressive scan CMOS, global shutter	Dual Gigabit Ethernet, Transfer rate 2000 Mbits/sec, Connector: 2 x 8P8C Modular Jack (RJ45), screwable type	Mono

	LXG-80C	3360 × 2496 px	ams (CMOSIS) CMV8000	4/3" progressive scan CMOS, global shutter	Dual Gigabit Ethernet, Transfer rate 2000 Mbits/sec, Connector: 2 x 8P8C Modular Jack (RJ45), screwable type	Raw Bayer
	LXG-80M	3360 × 2496 px	ams (CMOSIS) CMV8000	4/3" progressive scan CMOS, global shutter	Dual Gigabit Ethernet, Transfer rate 2000 Mbits/sec, Connector: 2 x 8P8C Modular Jack (RJ45), screwable type	Mono
	MXG02	656 × 490 px	Sony ICX618	1/4" progressive scan CCD, global shutter	Gigabit Ethernet, Transfer rate 1000 Mbits/sec, Fast Ethernet, Transfer Rate 100 Mbits/sec, Connector: 8P8C Modular Jack (RJ45)	Mono
	MXG02c	656 × 490 px	Sony ICX618	1/4" progressive scan CCD, global shutter	Gigabit Ethernet, Transfer rate 1000 Mbits/sec, Fast Ethernet, Transfer Rate 100 Mbits/sec, Connector: 8P8C Modular Jack (RJ45)	RGB YUV Mono
	MXG12	1288 × 960 px	Sony ICX445	1/3" progressive scan CCD, global shutter	Gigabit Ethernet, Transfer rate 1000 Mbits/sec, Fast Ethernet, Transfer Rate 100 Mbits/sec, Connector: 8P8C Modular Jack (RJ45)	Mono
	MXG12c	1288 × 960 px	Sony ICX445	1/3" progressive scan CCD, global shutter	Gigabit Ethernet, Transfer rate 1000 Mbits/sec, Fast Ethernet, Transfer Rate 100 Mbits/sec, Connector: 8P8C Modular Jack (RJ45)	RGB YUV Mono
	MXG20	1624 × 1228 px	Sony ICX274	1/1.8" progressive scan CCD, global shutter	Gigabit Ethernet, Transfer rate 1000 Mbits/sec, Fast Ethernet, Transfer Rate 100 Mbits/sec, Connector: 8P8C Modular Jack (RJ45)	Mono

	MXG20c	1624 × 1228 px	Sony ICX274	1/1.8" progressive scan CCD, global shutter	Gigabit Ethernet, Transfer rate 1000 Mbits/sec, Fast Ethernet, Transfer Rate 100 Mbits/sec, Connector: 8P8C Modular Jack (RJ45)	RGB YUV Mono
	MXGC03	640 × 480 px	ams (CMOSIS) CMV300	1/3" progressive scan CMOS, global shutter	Gigabit Ethernet, Transfer rate 1000 Mbits/sec, Fast Ethernet, Transfer Rate 100 Mbits/sec, Connector: 8P8C Modular Jack (RJ45)	Mono
	MXGC03 C	640 × 480 px	ams (CMOSIS) CMV300	1/3" progressive scan CMOS, global shutter	Gigabit Ethernet, Transfer rate 1000 Mbits/sec, Fast Ethernet, Transfer Rate 100 Mbits/sec, Connector: 8P8C Modular Jack (RJ45)	RGB YUV Mono
	MXGC20	2040 × 1084 px	ams (CMOSIS) CMV2000	2/3" progressive scan CMOS, global shutter	Gigabit Ethernet, Transfer rate 1000 Mbits/sec, Fast Ethernet, Transfer Rate 100 Mbits/sec, Connector: 8P8C Modular Jack (RJ45)	Mono
	MXGC20 c	2040 × 1084 px	ams (CMOSIS) CMV2000	2/3" progressive scan CMOS, global shutter	Gigabit Ethernet, Transfer rate 1000 Mbits/sec, Fast Ethernet, Transfer Rate 100 Mbits/sec, Connector: 8P8C Modular Jack (RJ45)	RGB YUV Mono
	MXGC40	2040 × 2044 px	ams (CMOSIS) CMV4000	1" progressive scan CMOS, global shutter	Gigabit Ethernet, Transfer rate 1000 Mbits/sec, Fast Ethernet, Transfer Rate 100 Mbits/sec, Connector: 8P8C Modular Jack (RJ45)	Mono
	MXGC40 .2	2040 × 2044 px	ams (CMOSIS) CMV4000 V3	1" progressive scan CMOS, global shutter	Gigabit Ethernet, Transfer rate 1000 Mbits/sec, Fast Ethernet, Transfer Rate 100 Mbits/sec, Connector: 8P8C Modular Jack (RJ45)	Mono








	MXGC40c	2040 × 2044 px	ams (CMOSIS) CMV4000	1" progressive scan CMOS, global shutter	Gigabit Ethernet, Transfer rate 1000 Mbits/sec, Fast Ethernet, Transfer Rate 100 Mbits/sec, Connector: 8P8C Modular Jack (RJ45)	RGB YUV Mono
	MXGC40c.2	2040 × 2044 px	ams (CMOSIS) CMV4000 V3	1" progressive scan CMOS, global shutter	Gigabit Ethernet, Transfer rate 1000 Mbits/sec, Fast Ethernet, Transfer Rate 100 Mbits/sec, Connector: 8P8C Modular Jack (RJ45)	RGB YUV Mono
	MXU02	656 × 490 px	Sony ICX618	1/4" progressive scan CCD, global shutter	USB 3.0, Transfer Rate 5000 Mbits/sec, Connector: USB 3.0 Micro B	Mono
	MXU02c	656 × 490 px	Sony ICX618	1/4" progressive scan CCD, global shutter	USB 3.0, Transfer Rate 5000 Mbits/sec, Connector: USB 3.0 Micro B	RGB YUV Mono
	MXU12	1288 × 960 px	Sony ICX445	1/3" progressive scan CCD, global shutter	USB 3.0, Transfer Rate 5000 Mbits/sec, Connector: USB 3.0 Micro B	Mono
	MXU12c	1288 × 960 px	Sony ICX445	1/3" progressive scan CCD, global shutter	USB 3.0, Transfer Rate 5000 Mbits/sec, Connector: USB 3.0 Micro B	RGB YUV Mono
	MXU20	1624 × 1228 px	Sony ICX274	1/1.8" progressive scan CCD, global shutter	USB 3.0, Transfer Rate 5000 Mbits/sec, Connector: USB 3.0 Micro B	Mono

	MXU20c	1624 × 1228 px	Sony ICX274	1/1.8" progressive scan CCD, global shutter	USB 3.0, Transfer Rate 5000 Mb/Sec, Connector: USB 3.0 Micro B	RGB YUV Mono
	MXUC20	2044 × 1084 px	ams (CMOSIS) CMV2000	2/3" progressive scan CMOS, global shutter	USB 3.0, Transfer Rate 5000 Mb/Sec, Connector: USB 3.0 Micro B	Mono
	MXUC20c	2044 × 1084 px	ams (CMOSIS) CMV2000	2/3" progressive scan CMOS, global shutter	USB 3.0, Transfer Rate 5000 Mb/Sec, Connector: USB 3.0 Micro B	RGB YUV Mono
	MXUC40.2	2044 × 2044 px	ams (CMOSIS) CMV4000 V3	1" progressive scan CMOS, global shutter	USB 3.0, Transfer Rate 5000 Mb/Sec, Connector: USB 3.0 Micro B	Mono
	MXUC40c.2	2044 × 2044 px	ams (CMOSIS) CMV4000 V3	1" progressive scan CMOS, global shutter	USB 3.0, Transfer Rate 5000 Mb/Sec, Connector: USB 3.0 Micro B	RGB YUV Mono
	PXU-120M.Q	4248 × 2832 px	Sony ICX834AL	1" progressive scan CCD, global shutter	USB 3.0, Transfer Rate 5000 Mb/Sec, Connector: USB 3.0 Micro B	Mono
	PXU-60M.Q	2752 × 2200 px	Sony ICX694AL	1" progressive scan CCD, global shutter	USB 3.0, Transfer Rate 5000 Mb/Sec, Connector: USB 3.0 Micro B	Mono

	SXG10	1024 × 1024 px	ON Semiconductor KAI-01050	1.2" progressive scan CCD, global shutter	Dual Gigabit Ethernet, Transfer rate 2000 Mbits/sec, Connector: 2 x 8P8C Modular Jack (RJ45), screwable type	Mono
	SXG20	1600 × 1200 px	ON Semiconductor KAI-02050	2/3" progressive scan CCD, global shutter	Dual Gigabit Ethernet, Transfer rate 2000 Mbits/sec, Connector: 2 x 8P8C Modular Jack (RJ45), screwable type	Mono
	SXG21	1920 × 1080 px	ON Semiconductor KAI-02150	2/3" progressive scan CCD, global shutter	Dual Gigabit Ethernet, Transfer rate 2000 Mbits/sec, Connector: 2 x 8P8C Modular Jack (RJ45), screwable type	Mono
	SXG40	2336 × 1752 px	ON Semiconductor KAI-04050	1" progressive scan CCD, global shutter	Dual Gigabit Ethernet, Transfer rate 2000 Mbits/sec, Connector: 2 x 8P8C Modular Jack (RJ45), screwable type	Mono
	SXG80	3296 × 2472 px	ON Semiconductor KAI-08050	4/3" progressive scan CCD, global shutter	Dual Gigabit Ethernet, Transfer rate 2000 Mbits/sec, Connector: 2 x 8P8C Modular Jack (RJ45), screwable type	Mono
	TXG02	656 × 494 px	Sony ICX618	1/4" progressive scan CCD, global shutter	Gigabit Ethernet, Transfer rate 1000 Mbits/sec, Connector: 8P8C Modular Jack (RJ45), screwable type	Mono
	TXG02c	656 × 490 px	Sony ICX618	1/4" progressive scan CCD, global shutter	Gigabit Ethernet, Transfer rate 1000 Mbits/sec, Connector: 8P8C Modular Jack (RJ45), screwable type	RGB YUV Mono

	TXG03	656 × 494 px	Sony ICX424	1/3" progressive scan CCD, global shutter	Gigabit Ethernet, Transfer rate 1000 Mbits/sec, Connector: 8P8C Modular Jack (RJ45), screwable type	Mono
	TXG03-I7	656 × 494 px	Sony ICX424	1/3" progressive scan CCD, global shutter	Gigabit Ethernet, Transfer rate 1000 Mbits/sec, Connector: M12 / 8 pins, screwable type	Mono
	TXG03-P	656 × 494 px	Sony ICX424	1/3" progressive scan CCD, global shutter	Gigabit Ethernet, Transfer rate 1000 Mbits/sec, Connector: 8P8C Modular Jack (RJ45), screwable type	Mono
	TXG03c	656 × 490 px	Sony ICX424	1/3" progressive scan CCD, global shutter	Gigabit Ethernet, Transfer rate 1000 Mbits/sec, Connector: 8P8C Modular Jack (RJ45), screwable type	RGB YUV Mono
	TXG03c-I7	656 × 490 px	Sony ICX424	1/3" progressive scan CCD, global shutter	Gigabit Ethernet, Transfer rate 1000 Mbits/sec, Connector: M12 / 8 pins, screwable type	RGB YUV Mono
	TXG03c-m3	656 × 490 px	Sony ICX424	1/3" progressive scan CCD, global shutter	Gigabit Ethernet, Transfer rate 1000 Mbits/sec, Connector: 8P8C Modular Jack (RJ45), screwable type	RGB YUV Mono
	TXG03m3	656 × 494 px	Sony ICX424	1/3" progressive scan CCD, global shutter	Gigabit Ethernet, Transfer rate 1000 Mbits/sec, Connector: 8P8C Modular Jack (RJ45), screwable type	Mono

	TXG04	656 × 494 px	Sony ICX414	1.2" progressive scan CCD, global shutter	Gigabit Ethernet, Transfer rate 1000 Mbits/sec, Connector: 8P8C Modular Jack (RJ45), screwable type	Mono
	TXG04c	656 × 490 px	Sony ICX414	1.2" progressive scan CCD, global shutter	Gigabit Ethernet, Transfer rate 1000 Mbits/sec, Connector: 8P8C Modular Jack (RJ45), screwable type	RGB YUV Mono
	TXG04v2	656 × 494 px	Sony ICX414	1.2" progressive scan CCD, global shutter	Gigabit Ethernet, Transfer rate 1000 Mbits/sec, Connector: 8P8C Modular Jack (RJ45), screwable type	Mono
	TXG06	776 × 582 px	Sony ICX415	1.2" progressive scan CCD, global shutter	Gigabit Ethernet, Transfer rate 1000 Mbits/sec, Connector: 8P8C Modular Jack (RJ45), screwable type	Mono
	TXG06c	776 × 578 px	Sony ICX415	1.2" progressive scan CCD, global shutter	Gigabit Ethernet, Transfer rate 1000 Mbits/sec, Connector: 8P8C Modular Jack (RJ45), screwable type	RGB YUV Mono
	TXG08	1032 × 776 px	Sony ICX204	1/3" progressive scan CCD, global shutter	Gigabit Ethernet, Transfer rate 1000 Mbits/sec, Connector: 8P8C Modular Jack (RJ45), screwable type	Mono
	TXG08-17	1032 × 776 px	Sony ICX204	1/3" progressive scan CCD, global shutter	Gigabit Ethernet, Transfer rate 1000 Mbits/sec, Connector: M12 / 8 pins, screwable type	Mono

	TXG08-P	1032 × 776 px	Sony ICX204	1/3" progressive scan CCD, global shutter	Gigabit Ethernet, Transfer rate 1000 Mbits/sec, Connector: 8P8C Modular Jack (RJ45), screwable type	Mono
	TXG08c	1032 × 772 px	Sony ICX204	1/3" progressive scan CCD, global shutter	Gigabit Ethernet, Transfer rate 1000 Mbits/sec, Connector: 8P8C Modular Jack (RJ45), screwable type	RGB YUV Mono
	TXG08c-I7	1032 × 772 px	Sony ICX204	1/3" progressive scan CCD, global shutter	Gigabit Ethernet, Transfer rate 1000 Mbits/sec, Connector: M12 / 8 pins, screwable type	RGB YUV Mono
	TXG08c-P	1032 × 772 px	Sony ICX204	1/3" progressive scan CCD, global shutter	Gigabit Ethernet, Transfer rate 1000 Mbits/sec, Connector: 8P8C Modular Jack (RJ45), screwable type	RGB YUV Mono
	TXG12	1296 × 966 px	Sony ICX445	1/3" progressive scan CCD, global shutter	Gigabit Ethernet, Transfer rate 1000 Mbits/sec, Connector: 8P8C Modular Jack (RJ45), screwable type	Mono
	TXG12c	1296 × 960 px	Sony ICX445	1/3" progressive scan CCD, global shutter	Gigabit Ethernet, Transfer rate 1000 Mbits/sec, Connector: 8P8C Modular Jack (RJ45), screwable type	RGB YUV Mono
	TXG13	1392 × 1040 px	Sony ICX267	1.2" progressive scan CCD, global shutter	Gigabit Ethernet, Transfer rate 1000 Mbits/sec, Connector: 8P8C Modular Jack (RJ45), screwable type	Mono

	TXG13-I7	1392 × 1040 px	Sony ICX267	1.2" progressive scan CCD, global shutter	Gigabit Ethernet, Transfer rate 1000 Mbits/sec, Connector: M12 / 8 pins, screwable type	Mono
	TXG13-P	1392 × 1040 px	Sony ICX267	1.2" progressive scan CCD, global shutter	Gigabit Ethernet, Transfer rate 1000 Mbits/sec, Connector: 8P8C Modular Jack (RJ45), screwable type	Mono
	TXG13c	1384 × 1036 px	Sony ICX267	1.2" progressive scan CCD, global shutter	Gigabit Ethernet, Transfer rate 1000 Mbits/sec, Connector: 8P8C Modular Jack (RJ45), screwable type	RGB YUV Mono
	TXG13m3	1392 × 1040 px	Sony ICX267	1.2" progressive scan CCD, global shutter	Gigabit Ethernet, Transfer rate 1000 Mbits/sec, Connector: 8P8C Modular Jack (RJ45), screwable type	Mono
	TXG14	1392 × 1040 px	Sony ICX285	2/3" progressive scan CCD, global shutter	Gigabit Ethernet, Transfer rate 1000 Mbits/sec, Connector: 8P8C Modular Jack (RJ45), screwable type	Mono
	TXG14NI R	1392 × 1040 px	Sony ICX285	2/3" progressive scan CCD, global shutter	Gigabit Ethernet, Transfer rate 1000 Mbits/sec, Connector: 8P8C Modular Jack (RJ45), screwable type	Mono NIR
	TXG14c	1384 × 1036 px	Sony ICX285	2/3" progressive scan CCD, global shutter	Gigabit Ethernet, Transfer rate 1000 Mbits/sec, Connector: 8P8C Modular Jack (RJ45), screwable type	RGB YUV Mono

	TXG14cf	1384 × 1036 px	Sony ICX285	2/3" progressive scan CCD, global shutter	Gigabit Ethernet, Transfer rate 1000 Mbits/sec, Connector: 8P8C Modular Jack (RJ45), screwable type	RGB YUV Mono
	TXG14f	1392 × 1040 px	Sony ICX285	2/3" progressive scan CCD, global shutter	Gigabit Ethernet, Transfer rate 1000 Mbits/sec, Connector: 8P8C Modular Jack (RJ45), screwable type	Mono
	TXG20	1624 × 1236 px	Sony ICX274	1/1.8" progressive scan CCD, global shutter	Gigabit Ethernet, Transfer rate 1000 Mbits/sec, Connector: 8P8C Modular Jack (RJ45), screwable type	Mono
	TXG20-I7	1624 × 1236 px	Sony ICX274	1/1.8" progressive scan CCD, global shutter	Gigabit Ethernet, Transfer rate 1000 Mbits/sec, Connector: M12 / 8 pins, screwable type	Mono
	TXG20-P	1624 × 1236 px	Sony ICX274	1/1.8" progressive scan CCD, global shutter	Gigabit Ethernet, Transfer rate 1000 Mbits/sec, Connector: 8P8C Modular Jack (RJ45), screwable type	Mono
	TXG20c	1624 × 1232 px	Sony ICX274	1/1.8" progressive scan CCD, global shutter	Gigabit Ethernet, Transfer rate 1000 Mbits/sec, Connector: 8P8C Modular Jack (RJ45), screwable type	RGB YUV Mono
	TXG20c-I7	1624 × 1232 px	Sony ICX274	1/1.8" progressive scan CCD, global shutter	Gigabit Ethernet, Transfer rate 1000 Mbits/sec, Connector: M12 / 8 pins, screwable type	RGB YUV Mono

	TXG20c-P	1624 × 1232 px	Sony ICX274	1/1.8" progressive scan CCD, global shutter	Gigabit Ethernet, Transfer rate 1000 Mbits/sec, Connector: 8P8C Modular Jack (RJ45), screwable type	RGB YUV Mono
	TXG20c-m3	1624 × 1232 px	Sony ICX274	1/1.8" progressive scan CCD, global shutter	Gigabit Ethernet, Transfer rate 1000 Mbits/sec, Connector: 8P8C Modular Jack (RJ45), screwable type	RGB YUV Mono
	TXG20m-3	1624 × 1236 px	Sony ICX274	1/1.8" progressive scan CCD, global shutter	Gigabit Ethernet, Transfer rate 1000 Mbits/sec, Connector: 8P8C Modular Jack (RJ45), screwable type	Mono
	TXG50	2448 × 2050 px	Sony ICX625	2/3" progressive scan CCD, global shutter	Gigabit Ethernet, Transfer rate 1000 Mbits/sec, Connector: 8P8C Modular Jack (RJ45), screwable type	Mono
	TXG50-I7	2448 × 2050 px	Sony ICX625	2/3" progressive scan CCD, global shutter	Gigabit Ethernet, Transfer rate 1000 Mbits/sec, Connector: M12 / 8 pins, screwable type	Mono
	TXG50-P	2448 × 2050 px	Sony ICX625	2/3" progressive scan CCD, global shutter	Gigabit Ethernet, Transfer rate 1000 Mbits/sec, Connector: 8P8C Modular Jack (RJ45), screwable type	Mono
	TXG50c	2448 × 2050 px	Sony ICX625	2/3" progressive scan CCD, global shutter	Gigabit Ethernet, Transfer rate 1000 Mbits/sec, Connector: 8P8C Modular Jack (RJ45), screwable type	RGB

	TXG50c-I7	2448 × 2050 px	Sony ICX625	2/3" progressive scan CCD, global shutter	Gigabit Ethernet, Transfer rate 1000 Mbits/sec, Connector: M12 / 8 pins, screwable type	RGB
	TXG50c-P	2448 × 2050 px	Sony ICX625	2/3" progressive scan CCD, global shutter	Gigabit Ethernet, Transfer rate 1000 Mbits/sec, Connector: 8P8C Modular Jack (RJ45), screwable type	RGB
	TXG50m-3	2448 × 2050 px	Sony ICX625	2/3" progressive scan CCD, global shutter	Gigabit Ethernet, Transfer rate 1000 Mbits/sec, Connector: 8P8C Modular Jack (RJ45), screwable type	Mono
	VCXG-02C	640 × 480 px	ON Semiconductor PYTHON300	1/4" progressive scan CMOS, global shutter	Gigabit Ethernet, Transfer rate 1000 Mbits/sec, Fast Ethernet, Transfer Rate 100 Mbits/sec, Connector: 8P8C Modular Jack (RJ45), screwable type	Mono Raw Bayer RGB
	VCXG-02M	640 × 480 px	ON Semiconductor PYTHON300	1/4" progressive scan CMOS, global shutter	Gigabit Ethernet, Transfer rate 1000 Mbits/sec, Fast Ethernet, Transfer Rate 100 Mbits/sec, Connector: 8P8C Modular Jack (RJ45), screwable type	Mono
	VCXG-124C	4096 × 3000 px	Sony IMX304	1.1" progressive scan CMOS, global shutter	Gigabit Ethernet, Transfer rate 1000 Mbits/sec, Fast Ethernet, Transfer Rate 100 Mbits/sec, Connector: 8P8C Modular Jack (RJ45), screwable type	Mono Raw Bayer RGB
	VCXG-124M	4096 × 3000 px	Sony IMX304	1.1" progressive scan CMOS, global shutter	Gigabit Ethernet, Transfer rate 1000 Mbits/sec, Fast Ethernet, Transfer Rate 100 Mbits/sec, Connector: 8P8C Modular Jack (RJ45), screwable type	Mono

	VCXG-13C	1280 × 1024 px	ON Semiconductor PYTHON1300	1/2" progressive scan CMOS, global shutter	Gigabit Ethernet, Transfer rate 1000 Mbits/sec, Fast Ethernet, Transfer Rate 100 Mbits/sec, Connector: 8P8C Modular Jack (RJ45), screwable type	Mono Raw Bayer RGB
	VCXG-13M	1280 × 1024 px	ON Semiconductor PYTHON1300	1/2" progressive scan CMOS, global shutter	Gigabit Ethernet, Transfer rate 1000 Mbits/sec, Fast Ethernet, Transfer Rate 100 Mbits/sec, Connector: 8P8C Modular Jack (RJ45), screwable type	Mono
	VCXG-23C	1920 × 1200 px	Sony IMX174	1/1.2" progressive scan CMOS, global shutter	Gigabit Ethernet, Transfer rate 1000 Mbits/sec, Fast Ethernet, Transfer Rate 100 Mbits/sec, Connector: 8P8C Modular Jack (RJ45), screwable type	Mono Raw Bayer RGB
	VCXG-23M	1920 × 1200 px	Sony IMX174	1/1.2" progressive scan CMOS, global shutter	Gigabit Ethernet, Transfer rate 1000 Mbits/sec, Fast Ethernet, Transfer Rate 100 Mbits/sec, Connector: 8P8C Modular Jack (RJ45), screwable type	Mono
	VCXG-24C	1920 × 1200 px	Sony IMX249	1/1.2" progressive scan CMOS, global shutter	Gigabit Ethernet, Transfer rate 1000 Mbits/sec, Fast Ethernet, Transfer Rate 100 Mbits/sec, Connector: 8P8C Modular Jack (RJ45), screwable type	Mono Raw Bayer RGB
	VCXG-24M	1920 × 1200 px	Sony IMX249	1/1.2" progressive scan CMOS, global shutter	Gigabit Ethernet, Transfer rate 1000 Mbits/sec, Fast Ethernet, Transfer Rate 100 Mbits/sec, Connector: 8P8C Modular Jack (RJ45), screwable type	Mono
	VCXG-25C	1920 × 1200 px	ON Semiconductor PYTHON2000	2/3" progressive scan CMOS, global shutter	Gigabit Ethernet, Transfer rate 1000 Mbits/sec, Fast Ethernet, Transfer Rate 100 Mbits/sec, Connector: 8P8C Modular Jack (RJ45), screwable type	Mono Raw Bayer RGB

	VCXG-25M	1920 × 1200 px	ON Semiconductor PYTHON2000	2/3" progressive scan CMOS, global shutter	Gigabit Ethernet, Transfer rate 1000 Mbts/sec, Fast Ethernet, Transfer Rate 100 Mbts/sec, Connector: 8P8C Modular Jack (RJ45), screwable type	Mono
	VCXG-32C	2048 × 1536 px	Sony IMX265	1/1.8" progressive scan CMOS, global shutter	Gigabit Ethernet, Transfer rate 1000 Mbts/sec, Fast Ethernet, Transfer Rate 100 Mbts/sec, Connector: 8P8C Modular Jack (RJ45), screwable type	Mono Raw Bayer RGB
	VCXG-32M	2048 × 1536 px	Sony IMX265	1/1.8" progressive scan CMOS, global shutter	Gigabit Ethernet, Transfer rate 1000 Mbts/sec, Fast Ethernet, Transfer Rate 100 Mbts/sec, Connector: 8P8C Modular Jack (RJ45), screwable type	Mono
	VCXG-51C	2448 × 2048 px	Sony IMX264	2/3" progressive scan CMOS, global shutter	Gigabit Ethernet, Transfer rate 1000 Mbts/sec, Fast Ethernet, Transfer Rate 100 Mbts/sec, Connector: 8P8C Modular Jack (RJ45), screwable type	Mono Raw Bayer RGB
	VCXG-51M	2448 × 2048 px	Sony IMX264	2/3" progressive scan CMOS, global shutter	Gigabit Ethernet, Transfer rate 1000 Mbts/sec, Fast Ethernet, Transfer Rate 100 Mbts/sec, Connector: 8P8C Modular Jack (RJ45), screwable type	Mono
	VCXG-53C	2592 × 2048 px	ON Semiconductor PYTHON5000	1" progressive scan CMOS, global shutter	Gigabit Ethernet, Transfer rate 1000 Mbts/sec, Fast Ethernet, Transfer Rate 100 Mbts/sec, Connector: 8P8C Modular Jack (RJ45), screwable type	Mono Raw Bayer RGB
	VCXG-53M	2592 × 2048 px	ON Semiconductor PYTHON5000	1" progressive scan CMOS, global shutter	Gigabit Ethernet, Transfer rate 1000 Mbts/sec, Fast Ethernet, Transfer Rate 100 Mbts/sec, Connector: 8P8C Modular Jack (RJ45), screwable type	Mono

	VCXU-02C	640 × 480 px	ON Semiconductor PYTHON300	1/4" progressive scan CMOS, global shutter	USB 3.0, Transfer Rate 5000 Mb/s, Connector: USB 3.0 Micro B	Mono Raw Bayer RGB
	VCXU-02M	640 × 480 px	ON Semiconductor PYTHON300	1/4" progressive scan CMOS, global shutter	USB 3.0, Transfer Rate 5000 Mb/s, Connector: USB 3.0 Micro B	Mono
	VCXU-123C	4096 × 3000 px	Sony IMX253	1.1" progressive scan CMOS, global shutter	USB 3.0, Transfer Rate 5000 Mb/s, Connector: USB 3.0 Micro B	Mono Raw Bayer RGB
	VCXU-123M	4096 × 3000 px	Sony IMX253	1.1" progressive scan CMOS, global shutter	USB 3.0, Transfer Rate 5000 Mb/s, Connector: USB 3.0 Micro B	Mono
	VCXU-13C	1280 × 1024 px	ON Semiconductor PYTHON1300	1/2" progressive scan CMOS, global shutter	USB 3.0, Transfer Rate 5000 Mb/s, Connector: USB 3.0 Micro B	Mono Raw Bayer RGB
	VCXU-13M	1280 × 1024 px	ON Semiconductor PYTHON1300	1/2" progressive scan CMOS, global shutter	USB 3.0, Transfer Rate 5000 Mb/s, Connector: USB 3.0 Micro B	Mono
	VCXU-23C	1920 × 1200 px	Sony IMX174	1/1.2" progressive scan CMOS, global shutter	USB 3.0, Transfer Rate 5000 Mb/s, Connector: USB 3.0 Micro B	Mono Raw Bayer RGB

	VCXU-23M	1920 × 1200 px	Sony IMX174	1/1.2" progressive scan CMOS, global shutter	USB 3.0, Transfer Rate 5000 Mb/s, Connector: USB 3.0 Micro B	Mono
	VCXU-24C	1920 × 1200 px	Sony IMX249	1/1.2" progressive scan CMOS, global shutter	USB 3.0, Transfer Rate 5000 Mb/s, Connector: USB 3.0 Micro B	Mono Raw Bayer RGB
	VCXU-24M	1920 × 1200 px	Sony IMX249	1/1.2" progressive scan CMOS, global shutter	USB 3.0, Transfer Rate 5000 Mb/s, Connector: USB 3.0 Micro B	Mono
	VCXU-25C	1920 × 1200 px	ON Semiconductor PYTHON2000	2/3" progressive scan CMOS, global shutter	USB 3.0, Transfer Rate 5000 Mb/s, Connector: USB 3.0 Micro B	Mono Raw Bayer RGB
	VCXU-25M	1920 × 1200 px	ON Semiconductor PYTHON2000	2/3" progressive scan CMOS, global shutter	USB 3.0, Transfer Rate 5000 Mb/s, Connector: USB 3.0 Micro B	Mono
	VCXU-31C	2448 × 2048 px	Sony IMX252	1/1.8" progressive scan CMOS, global shutter	USB 3.0, Transfer Rate 5000 Mb/s, Connector: USB 3.0 Micro B	Mono Raw Bayer RGB
	VCXU-31M	2448 × 2048 px	Sony IMX252	1/1.8" progressive scan CMOS, global shutter	USB 3.0, Transfer Rate 5000 Mb/s, Connector: USB 3.0 Micro B	Mono

	VCXU-32C	2048 × 1536 px	Sony IMX265	1/1.8" progressive scan CMOS, global shutter	USB 3.0, Transfer Rate 5000 Mb/Sec, Connector: USB 3.0 Micro B	Mono Raw Bayer RGB
	VCXU-32M	2048 × 1536 px	Sony IMX265	1/1.8" progressive scan CMOS, global shutter	USB 3.0, Transfer Rate 5000 Mb/Sec, Connector: USB 3.0 Micro B	Mono
	VCXU-50C	2448 × 2048 px	Sony IMX250	2/3" progressive scan CMOS, global shutter	USB 3.0, Transfer Rate 5000 Mb/Sec, Connector: USB 3.0 Micro B	Mono Raw Bayer RGB
	VCXU-50M	2448 × 2048 px	Sony IMX250	2/3" progressive scan CMOS, global shutter	USB 3.0, Transfer Rate 5000 Mb/Sec, Connector: USB 3.0 Micro B	Mono
	VCXU-51C	2448 × 2048 px	Sony IMX264	2/3" progressive scan CMOS, global shutter	USB 3.0, Transfer Rate 5000 Mb/Sec, Connector: USB 3.0 Micro B	Mono Raw Bayer RGB
	VCXU-51M	2448 × 2048 px	Sony IMX264	2/3" progressive scan CMOS, global shutter	USB 3.0, Transfer Rate 5000 Mb/Sec, Connector: USB 3.0 Micro B	Mono
	VCXU-53C	2592 × 2048 px	ON Semiconductor PYTHON5000	1" progressive scan CMOS, global shutter	USB 3.0, Transfer Rate 5000 Mb/Sec, Connector: USB 3.0 Micro B	Mono Raw Bayer RGB

	VCXU-53M	2592 × 2048 px	ON Semiconductor PYTHON5000	1" progressive scan CMOS, global shutter	USB 3.0, Transfer Rate 5000 Mbits/sec, Connector: USB 3.0 Micro B	Mono
	VEXG-02C	640 × 480 px	ON Semiconductor PYTHON300	1/4" progressive scan CMOS, global shutter	Gigabit Ethernet, Transfer rate 1000 Mbits/sec, Fast Ethernet, Transfer Rate 100 Mbits/sec, Connector: 8P8C Modular Jack (RJ45), screwable type	Raw Bayer
	VEXG-02M	640 × 480 px	ON Semiconductor PYTHON300	1/4" progressive scan CMOS, global shutter	Gigabit Ethernet, Transfer rate 1000 Mbits/sec, Fast Ethernet, Transfer Rate 100 Mbits/sec, Connector: 8P8C Modular Jack (RJ45), screwable type	Mono
	VEXG-13C	1280 × 1024 px	ON Semiconductor PYTHON1300	1/2" progressive scan CMOS, global shutter	Gigabit Ethernet, Transfer rate 1000 Mbits/sec, Fast Ethernet, Transfer Rate 100 Mbits/sec, Connector: 8P8C Modular Jack (RJ45), screwable type	Raw Bayer
	VEXG-13M	1280 × 1024 px	ON Semiconductor PYTHON1300	1/2" progressive scan CMOS, global shutter	Gigabit Ethernet, Transfer rate 1000 Mbits/sec, Fast Ethernet, Transfer Rate 100 Mbits/sec, Connector: 8P8C Modular Jack (RJ45), screwable type	Mono
	VEXG-25C	1920 × 1200 px	ON Semiconductor PYTHON2000	2/3" progressive scan CMOS, global shutter	Gigabit Ethernet, Transfer rate 1000 Mbits/sec, Fast Ethernet, Transfer Rate 100 Mbits/sec, Connector: 8P8C Modular Jack (RJ45), screwable type	Raw Bayer
	VEXG-25M	1920 × 1200 px	ON Semiconductor PYTHON2000	2/3" progressive scan CMOS, global shutter	Gigabit Ethernet, Transfer rate 1000 Mbits/sec, Fast Ethernet, Transfer Rate 100 Mbits/sec, Connector: 8P8C Modular Jack (RJ45), screwable type	Mono






	VEXU-24C	1920 × 1200 px	Sony IMX249	1/1.2" progressive scan CMOS, global shutter	USB 3.0, Transfer Rate 5000 Mb/Sec, Connector: USB 3.0 Micro B	Raw Bayer
	VEXU-24M	1920 × 1200 px	Sony IMX249	1/1.2" progressive scan CMOS, global shutter	USB 3.0, Transfer Rate 5000 Mb/Sec, Connector: USB 3.0 Micro B	Mono
	VLG-02C	656 × 490 px	Sony ICX618	1/4" progressive scan CCD, global shutter	Gigabit Ethernet, Transfer rate 1000 Mb/Sec, Fast Ethernet, Transfer Rate 100 Mb/Sec, Connector: 8P8C Modular Jack (RJ45), screwable type	RGB YUV Mono
	VLG-02C.I	656 × 490 px	Sony ICX618	1/4" progressive scan CCD, global shutter	Gigabit Ethernet, Transfer rate 1000 Mb/Sec, Fast Ethernet, Transfer Rate 100 Mb/Sec, Connector: SACC-CI-M12FS-8CON-L180-10G	RGB YUV Mono
	VLG-02M	656 × 490 px	Sony ICX618	1/4" progressive scan CCD, global shutter	Gigabit Ethernet, Transfer rate 1000 Mb/Sec, Fast Ethernet, Transfer Rate 100 Mb/Sec, Connector: 8P8C Modular Jack (RJ45), screwable type	Mono
	VLG-02M.I	656 × 490 px	Sony ICX618	1/4" progressive scan CCD, global shutter	Gigabit Ethernet, Transfer rate 1000 Mb/Sec, Fast Ethernet, Transfer Rate 100 Mb/Sec, Connector: SACC-CI-M12FS-8CON-L180-10G	Mono
	VLG-03C	640 × 480 px	ams (CMOSIS) CMV300	1/3" progressive scan CMOS, global shutter	Gigabit Ethernet, Transfer rate 1000 Mb/Sec, Fast Ethernet, Transfer Rate 100 Mb/Sec, Connector: 8P8C Modular Jack (RJ45), screwable type	RGB YUV Mono

	VLG-03M	640 × 480 px	ams (CMOSIS) CMV300	1/3" progressive scan CMOS, global shutter	Gigabit Ethernet, Transfer rate 1000 Mbits/sec, Fast Ethernet, Transfer Rate 100 Mbits/sec, Connector: 8P8C Modular Jack (RJ45), screwable type	Mono
	VLG-12C	1288 × 960 px	Sony ICX445	1/3" progressive scan CCD, global shutter	Gigabit Ethernet, Transfer rate 1000 Mbits/sec, Fast Ethernet, Transfer Rate 100 Mbits/sec, Connector: 8P8C Modular Jack (RJ45), screwable type	RGB YUV Mono
	VLG-12C.I	1288 × 960 px	Sony ICX445	1/3" progressive scan CCD, global shutter	Gigabit Ethernet, Transfer rate 1000 Mbits/sec, Fast Ethernet, Transfer Rate 100 Mbits/sec, Connector: SACC-CI-M12FS-8CON-L180-10G	RGB YUV Mono
	VLG-12M	1288 × 960 px	Sony ICX445	1/3" progressive scan CCD, global shutter	Gigabit Ethernet, Transfer rate 1000 Mbits/sec, Fast Ethernet, Transfer Rate 100 Mbits/sec, Connector: 8P8C Modular Jack (RJ45), screwable type	Mono
	VLG-12M.I	1288 × 960 px	Sony ICX445	1/3" progressive scan CCD, global shutter	Gigabit Ethernet, Transfer rate 1000 Mbits/sec, Fast Ethernet, Transfer Rate 100 Mbits/sec, Connector: SACC-CI-M12FS-8CON-L180-10G	Mono
	VLG-20C	1624 × 1228 px	Sony ICX274	1/1.8" progressive scan CCD, global shutter	Gigabit Ethernet, Transfer rate 1000 Mbits/sec, Fast Ethernet, Transfer Rate 100 Mbits/sec, Connector: 8P8C Modular Jack (RJ45), screwable type	RGB YUV Mono
	VLG-20C.I	1624 × 1228 px	Sony ICX274	1/1.8" progressive scan CCD, global shutter	Gigabit Ethernet, Transfer rate 1000 Mbits/sec, Fast Ethernet, Transfer Rate 100 Mbits/sec, Connector: SACC-CI-M12FS-8CON-L180-10G	RGB YUV Mono



	VLG-20M	1624 × 1228 px	Sony ICX274	1/1.8" progressive scan CCD, global shutter	Gigabit Ethernet, Transfer rate 1000 Mb/s, Fast Ethernet, Transfer Rate 100 Mb/s, Connector: 8P8C Modular Jack (RJ45), screwable type	Mono
	VLG-20M.I	1624 × 1228 px	Sony ICX274	1/1.8" progressive scan CCD, global shutter	Gigabit Ethernet, Transfer rate 1000 Mb/s, Fast Ethernet, Transfer Rate 100 Mb/s, Connector: SACC-CI-M12FS-8CON-L180-10G	Mono
	VLG-22C	2040 × 1084 px	ams (CMOSIS) CMV2000	2/3" progressive scan CMOS, global shutter	Gigabit Ethernet, Transfer rate 1000 Mb/s, Fast Ethernet, Transfer Rate 100 Mb/s, Connector: 8P8C Modular Jack (RJ45), screwable type	RGB YUV Mono
	VLG-22C.I	2040 × 1084 px	ams (CMOSIS) CMV2000	2/3" progressive scan CMOS, global shutter	Gigabit Ethernet, Transfer rate 1000 Mb/s, Fast Ethernet, Transfer Rate 100 Mb/s, Connector: SACC-CI-M12FS-8CON-L180-10G	RGB YUV Mono
	VLG-22M	2040 × 1084 px	ams (CMOSIS) CMV2000	2/3" progressive scan CMOS, global shutter	Gigabit Ethernet, Transfer rate 1000 Mb/s, Fast Ethernet, Transfer Rate 100 Mb/s, Connector: 8P8C Modular Jack (RJ45), screwable type	Mono
	VLG-22M.I	2040 × 1084 px	ams (CMOSIS) CMV2000	2/3" progressive scan CMOS, global shutter	Gigabit Ethernet, Transfer rate 1000 Mb/s, Fast Ethernet, Transfer Rate 100 Mb/s, Connector: SACC-CI-M12FS-8CON-L180-10G	Mono
	VLG-23C	1920 × 1200 px	Sony IMX174	1/1.2" progressive scan CMOS, global shutter	Gigabit Ethernet, Transfer rate 1000 Mb/s, Fast Ethernet, Transfer Rate 100 Mb/s, Connector: 8P8C Modular Jack (RJ45), screwable type	RGB YUV Mono

	VLG-23C.I	1920 × 1200 px	Sony IMX174	1/1.2" progressive scan CMOS, global shutter	Gigabit Ethernet, Transfer rate 1000 Mbits/sec, Fast Ethernet, Transfer Rate 100 Mbits/sec, Connector: SACC-CI-M12FS-8CON-L180-10G	RGB YUV Mono
	VLG-23M	1920 × 1200 px	Sony IMX174	1/1.2" progressive scan CMOS, global shutter	Gigabit Ethernet, Transfer rate 1000 Mbits/sec, Fast Ethernet, Transfer Rate 100 Mbits/sec, Connector: 8P8C Modular Jack (RJ45), screwable type	Mono
	VLG-23M.I	1920 × 1200 px	Sony IMX174	1/1.2" progressive scan CMOS, global shutter	Gigabit Ethernet, Transfer rate 1000 Mbits/sec, Fast Ethernet, Transfer Rate 100 Mbits/sec, Connector: SACC-CI-M12FS-8CON-L180-10G	Mono
	VLG-24C	1920 × 1200 px	Sony IMX249	1/1.2" progressive scan CMOS, global shutter	Gigabit Ethernet, Transfer rate 1000 Mbits/sec, Fast Ethernet, Transfer Rate 100 Mbits/sec, Connector: 8P8C Modular Jack (RJ45), screwable type	RGB YUV Mono
	VLG-24M	1920 × 1200 px	Sony IMX249	1/1.2" progressive scan CMOS, global shutter	Gigabit Ethernet, Transfer rate 1000 Mbits/sec, Fast Ethernet, Transfer Rate 100 Mbits/sec, Connector: 8P8C Modular Jack (RJ45), screwable type	Mono
	VLG-40C	2040 × 2044 px	ams (CMOSIS) CMV4000	1" progressive scan CMOS, global shutter	Gigabit Ethernet, Transfer rate 1000 Mbits/sec, Fast Ethernet, Transfer Rate 100 Mbits/sec, Connector: 8P8C Modular Jack (RJ45), screwable type	RGB YUV Mono
	VLG-40C.2	2040 × 2044 px	ams (CMOSIS) CMV4000 V3	1" progressive scan CMOS, global shutter	Gigabit Ethernet, Transfer rate 1000 Mbits/sec, Fast Ethernet, Transfer Rate 100 Mbits/sec, Connector: 8P8C Modular Jack (RJ45), screwable type	RGB YUV Mono


	VLG-40C.2.I	2040 × 2044 px	ams (CMOSIS) CMV4000 V3	1" progressive scan CMOS, global shutter	Gigabit Ethernet, Transfer rate 1000 Mbits/sec, Fast Ethernet, Transfer Rate 100 Mbits/sec, Connector: SACC-CI-M12FS-8CON-L180-10G	RGB YUV Mono
	VLG-40C.I	2040 × 2044 px	ams (CMOSIS) CMV4000	1" progressive scan CMOS, global shutter	Gigabit Ethernet, Transfer rate 1000 Mbits/sec, Fast Ethernet, Transfer Rate 100 Mbits/sec, Connector: SACC-CI-M12FS-8CON-L180-10G	RGB YUV Mono
	VLG-40M	2040 × 2044 px	ams (CMOSIS) CMV4000	1" progressive scan CMOS, global shutter	Gigabit Ethernet, Transfer rate 1000 Mbits/sec, Fast Ethernet, Transfer Rate 100 Mbits/sec, Connector: 8P8C Modular Jack (RJ45), screwable type	Mono
	VLG-40M.2	2040 × 2044 px	ams (CMOSIS) CMV4000 V3	1" progressive scan CMOS, global shutter	Gigabit Ethernet, Transfer rate 1000 Mbits/sec, Fast Ethernet, Transfer Rate 100 Mbits/sec, Connector: 8P8C Modular Jack (RJ45), screwable type	Mono
	VLG-40M.2.I	2040 × 2044 px	ams (CMOSIS) CMV4000 V3	1" progressive scan CMOS, global shutter	Gigabit Ethernet, Transfer rate 1000 Mbits/sec, Fast Ethernet, Transfer Rate 100 Mbits/sec, Connector: SACC-CI-M12FS-8CON-L180-10G	Mono
	VLG-40M.I	2040 × 2044 px	ams (CMOSIS) CMV4000	1" progressive scan CMOS, global shutter	Gigabit Ethernet, Transfer rate 1000 Mbits/sec, Fast Ethernet, Transfer Rate 100 Mbits/sec, Connector: SACC-CI-M12FS-8CON-L180-10G	Mono
	VLU-02C	656 × 490 px	Sony ICX618	1/4" progressive scan CCD, global shutter	USB 3.0, Transfer Rate 5000 Mbits/sec, Connector: USB 3.0 Micro B	RGB YUV Mono



	VLU-02M	656 × 490 px	Sony ICX618	1/4" progressive scan CCD, global shutter	USB 3.0, Transfer Rate 5000 Mb/s, Connector: USB 3.0 Micro B	Mono
	VLU-03C	640 × 480 px	ams (CMOSIS) CMV300	1/3" progressive scan CMOS, global shutter	USB 3.0, Transfer Rate 5000 Mb/s, Connector: USB 3.0 Micro B	RGB YUV Mono
	VLU-03M	640 × 480 px	ams (CMOSIS) CMV300	1/3" progressive scan CMOS, global shutter	USB 3.0, Transfer Rate 5000 Mb/s, Connector: USB 3.0 Micro B	Mono
	VLU-12C	1288 × 960 px	Sony ICX445	1/3" progressive scan CCD, global shutter	USB 3.0, Transfer Rate 5000 Mb/s, Connector: USB 3.0 Micro B	RGB YUV Mono
	VLU-12M	1288 × 960 px	Sony ICX445	1/3" progressive scan CCD, global shutter	USB 3.0, Transfer Rate 5000 Mb/s, Connector: USB 3.0 Micro B	Mono

Vision sensors



	VS ID100M03W10RP	752 × 480 px	barcode matrix code	-	-	integrated, LED white	-	10 mm
	VS ID105M03I10RP	752 × 480 px	barcode matrix code	-	-	integrated, LED infrared (860 nm)	-	10 mm



	VS ID100M03W16 RP	752 × 480 px	barcode matrix code	-	-	integrated, LED white	-	16 mm
	VS ID110M03W10 EP	752 × 480 px	barcode matrix code text	part location on text line	-	integrated, LED white	contour comparison	10 mm
	VS ID510M03W12 IP	752 × 480 px	barcode matrix code text	part location on text line	-	integrated, LED white	contour comparison	12 mm
	VS ID110M03I10E P	752 × 480 px	barcode matrix code text	part location on text line	-	integrated, LED infrared (860 nm)	contour comparison	10 mm
	VS ID110M03I10R P	752 × 480 px	barcode matrix code text	part location on text line	-	integrated, LED infrared (860 nm)	contour comparison	10 mm
	VS ID510M03I12I P	752 × 480 px	barcode matrix code text	part location on text line	-	integrated, LED infrared (860 nm)	contour comparison	12 mm
	VS XF105M03I10 EP	752 × 480 px	-	part location on contour s part location on edges part location on circle part	dist anc e circl e angl e cou nt edg es poin t posi	integrated, LED infrared (860 nm)	contour comparison count contour points brightness contrast area size count areas pattern comparison	10 mm

				location on text line	tion edge characteristics			
	VS XF105M03I16 EP	752 × 480 px	-	part location on contours part location on edges part location on circle part location on text line	distance circle angle count edges point position edge characteristics	integrated, LED infrared (860 nm)	contour comparison count contour points brightness contrast area size count areas pattern comparison	16 mm
	VS XF105M03W1 0EP	752 × 480 px	-	part location on contours part location on edges part location on circle part location on text line	distance circle angle count edges point position edge characteristics	integrated, LED white	contour comparison count contour points brightness contrast area size count areas pattern comparison	10 mm
	VS XF205M03I10 EP	752 × 480 px	barcode matrix code text	part location on contours part location on	distance circle angle cou	integrated, LED infrared (860 nm)	contour comparison count contour points brightness contrast area size	10 mm


				edges part location on circle part location on text line	nt edg es poi nt posi tion edg e char acte risti cs		count areas pattern comparison	
	VS XF205M03W1 0EP	752 × 480 px	barcode matrix code text	part location on contour s part location on edges part location on circle part location on text line	dist anc e circl e angl e cou nt edg es poi nt posi tion edg e char acte risti cs	integrated, LED white	contour comparison count contour points brightness contrast area size count areas pattern comparison	10 mm
	VS XF205M03W1 6EP	752 × 480 px	barcode matrix code text	part location on contour s part location on edges part location on circle part location on text line	dist anc e circl e angl e cou nt edg es poi nt posi tion edg e char acte risti cs	integrated, LED white	contour comparison count contour points brightness contrast area size count areas pattern comparison	16 mm




	VS CS100M03W1 0EP	752 × 480 px	-	part location on contour s	dist anc e circl e	integrated, LED white	count contour points contour comparison brightness	10 mm
	VS CS100M03W1 6EP	752 × 480 px	-	part location on contour s	dist anc e circl e	integrated, LED white	count contour points contour comparison brightness	16 mm
	VS CS100M03I10 EP	752 × 480 px	-	part location on contour s	dist anc e circl e	integrated, LED infrared (860 nm)	count contour points contour comparison brightness	10 mm
	VS CS100M03I16 EP	752 × 480 px	-	part location on contour s	dist anc e circl e	integrated, LED infrared (860 nm)	count contour points contour comparison brightness	16 mm
	VS XF100M03W1 0EP	752 × 480 px	-	part location on contour s part location on edges part location on circle part location on text line	dist anc e circl e angl e cou nt edg es poin t posi tion edg e char acte risti cs	integrated, LED white	count contour points contour comparison brightness contrast area size count areas pattern comparison	10 mm
	VS XF100M03W1 0RP	752 × 480 px	-	part location on contour s part location	dist anc e circl e angl e	integrated, LED white	count contour points contour comparison brightness contrast	10 mm

				on edges part location on circle part location on text line	count edges point position edge characteristics		area size count areas pattern comparison	
	VS XF700M03W1 2IP	752 × 480 px	-	part location on contours part location on edges part location on circle part location on text line	distance circle angle count edges point position edge characteristics	integrated, LED white	count contour points contour comparison brightness contrast area size count areas pattern comparison	12 mm
	VS XF100M03W1 6EP	752 × 480 px	-	part location on contours part location on edges part location on circle part location on text line	distance circle angle count edges point position edge characteristics	integrated, LED white	count contour points contour comparison brightness contrast area size count areas pattern comparison	16 mm



	VS XF100M03W1 6RP	752 × 480 px	-	part location on contour s part location on edges part location on circle part location on text line	dist anc e circl e angl e cou nt edg es poin t posi tion edg e char acte risti cs	integrated, LED white	count contour points contour comparison brightness contrast area size count areas pattern comparison	16 mm
	VS XF700M03W1 6IP	752 × 480 px	-	part location on contour s part location on edges part location on circle part location on text line	dist anc e circl e angl e cou nt edg es poin t posi tion edg e char acte risti cs	integrated, LED white	count contour points contour comparison brightness contrast area size count areas pattern comparison	16 mm
	VS XF100M03I10 EP	752 × 480 px	-	part location on contour s part location on edges part location on circle part location on text	dist anc e circl e angl e cou nt edg es poin t posi tion edg e	integrated, LED infrared (860 nm)	count contour points contour comparison brightness contrast area size count areas pattern comparison	10 mm




				line	char acte risti cs			
	VS XF100M03I10 RP	752 × 480 px	-	part location on contour s part location on edges part location on circle part location on text line	dist anc e circl e angl e cou nt edg es poin t posi tion edg e char acte risti cs	integrated, LED infrared (860 nm)	count contour points contour comparison brightness contrast area size count areas pattern comparison	10 mm
	VS XF100M03I16 RP	752 × 480 px	-	part location on contour s part location on edges part location on circle part location on text line	dist anc e circl e angl e cou nt edg es poin t posi tion edg e char acte risti cs	integrated, LED infrared (860 nm)	count contour points contour comparison brightness contrast area size count areas pattern comparison	16 mm
	VS XF700M03I12I P	752 × 480 px	-	part location on contour s part location on edges part location	dist anc e circl e angl e cou nt edg es	integrated, LED infrared (860 nm)	count contour points contour comparison brightness contrast area size count areas pattern	12 mm




				on circle part location on text line	point position edge characteristics		comparison	
	VS XF200M03W1 0EP	752 × 480 px	barcode matrix code text	part location on contours part location on edges part location on circle part location on text line	distance circle angle count edges point position edge characteristics	integrated, LED white	count contour points contour comparison brightness contrast area size count areas pattern comparison	10 mm
	VS XF200M03W1 0RP	752 × 480 px	barcode matrix code text	part location on contours part location on edges part location on circle part location on text line	distance circle angle count edges point position edge characteristics	integrated, LED white	count contour points contour comparison brightness contrast area size count areas pattern comparison	10 mm



	VS XF800M03W1 2IP	752 × 480 px	barcode matrix code text	part location on contour s part location on edges part location on circle part location on text line	dist anc e circl e angl e cou nt edg es poin t posi tion edg e char acte risti cs	integrated, LED white	count contour points contour comparison brightness contrast area size count areas pattern comparison	12 mm
	VS XF200M03W1 6EP	752 × 480 px	barcode matrix code text	part location on contour s part location on edges part location on circle part location on text line	dist anc e circl e angl e cou nt edg es poin t posi tion edg e char acte risti cs	integrated, LED white	count contour points contour comparison brightness contrast area size count areas pattern comparison	16 mm
	VS XF800M03W1 6IP	752 × 480 px	barcode matrix code text	part location on contour s part location on edges part location on circle part location on text	dist anc e circl e angl e cou nt edg es poin t posi tion edg e	integrated, LED white	count contour points contour comparison brightness contrast area size count areas pattern comparison	16 mm


	<p>VS XF200M03I10 EP</p>	<p>752 × 480 px</p>	<p>barcode matrix code text</p>	<p>line</p> <p>part location on contour s part location on edges part location on circle part location on text line</p>	<p>char acte risti cs</p> <p>dist anc e circl e angl e cou nt edg es poin t posi tion edg e char acte risti cs</p>	<p>integrated, LED infrared (860 nm)</p>	<p>count contour points contour comparison brightness contrast area size count areas pattern comparison</p>	<p>10 mm</p>
	<p>VS XF800M03I12I P</p>	<p>752 × 480 px</p>	<p>barcode matrix code text</p>	<p>part location on contour s part location on edges part location on circle part location on text line</p>	<p>dist anc e circl e angl e cou nt edg es poin t posi tion edg e char acte risti cs</p>	<p>integrated, LED infrared (860 nm)</p>	<p>count contour points contour comparison brightness contrast area size count areas pattern comparison</p>	<p>12 mm</p>
	<p>VS XF800M03I16I P</p>	<p>752 × 480 px</p>	<p>barcode matrix code text</p>	<p>part location on contour s part location on edges part location</p>	<p>dist anc e circl e angl e cou nt edg es</p>	<p>integrated, LED infrared (860 nm)</p>	<p>count contour points contour comparison brightness contrast area size count areas pattern</p>	<p>16 mm</p>

				on circle part location on text line	point position edge characteristics		comparison	
	VS XC100C03X00 EP	640 × 480 px	-	part location on contours part location on edges part location on circle part location on text line	distance circle angle count edges point position edge characteristics	direct connection (integrated flash controller)	count contour points contour comparison area size count areas pattern comparison color identification color positioning	C-mount
	VS XC100C03X00 RP	640 × 480 px	-	part location on contours part location on edges part location on circle part location on text line	distance circle angle count edges point position edge characteristics	direct connection (integrated flash controller)	count contour points contour comparison area size count areas pattern comparison color identification color positioning	C-mount


	<p>VS XC100M03X00 EP</p>	<p>640 × 480 px</p>	<p>-</p>	<p>part location on contour s part location on edges part location on circle part location on text line</p>	<p>dist anc e circl e angl e cou nt edg es poin t posi tion edg e char acte risti cs</p>	<p>direct connection (integrated flash controller)</p>	<p>count contour points contour comparison brightness contrast area size count areas pattern comparison</p>	<p>C- mount</p>
	<p>VS XC100M03X00 RP</p>	<p>640 × 480 px</p>	<p>-</p>	<p>part location on contour s part location on edges part location on circle part location on text line</p>	<p>dist anc e circl e angl e cou nt edg es poin t posi tion edg e char acte risti cs</p>	<p>direct connection (integrated flash controller)</p>	<p>count contour points contour comparison brightness contrast area size count areas pattern comparison</p>	<p>C- mount</p>
	<p>VS XC700C03X00 IP</p>	<p>640 × 480 px</p>	<p>-</p>	<p>part location on contour s part location on edges part location on circle part location on text</p>	<p>dist anc e circl e angl e cou nt edg es poin t posi tion edg e</p>	<p>external, available as accessory</p>	<p>count contour points contour comparison brightness contrast area size count areas pattern comparison color identification color positioning</p>	<p>C- mount</p>

				line	char acte risti cs			
	VS XC700M03X00 IP	640 × 480 px	-	part location on contour s part location on edges part location on circle part location on text line	dist anc e circl e angl e cou nt edg es poin t posi tion edg e char acte risti cs	external, available as accessory	count contour points contour comparison brightness contrast area size count areas pattern comparison	C- mount
	VS XC100C12X00 EP	1280 × 960 px	-	part location on contour s part location on edges part location on circle part location on text line	dist anc e circl e angl e cou nt edg es poin t posi tion edg e char acte risti cs	direct connection (integrated flash controller)	count contour points contour comparison area size count areas pattern comparison color identification color positioning	C- mount
	VS XC100C12X00 RP	1280 × 960 px	-	part location on contour s part location on edges part location	dist anc e circl e angl e cou nt edg es	direct connection (integrated flash controller)	count contour points contour comparison area size count areas pattern comparison color identification	C- mount




				on circle part location on text line	point position edge characteristics		color positioning	
	VS XC100M12X00 EP	1280 × 960 px	-	part location on contours part location on edges part location on circle part location on text line	distance circle angle count edges point position edge characteristics	direct connection (integrated flash controller)	count contour points contour comparison brightness contrast area size count areas pattern comparison	C-mount
	VS XC100M12X00 RP	1280 × 960 px	-	part location on contours part location on edges part location on circle part location on text line	distance circle angle count edges point position edge characteristics	direct connection (integrated flash controller)	count contour points contour comparison brightness contrast area size count areas pattern comparison	C-mount

	<p>VS XC700C12X00 IP</p>	<p>1280 × 960 px</p>	<p>-</p>	<p>part location on contours part location on edges part location on circle part location on text line</p>	<p>distance circle angle count edges point position edge characteristics</p>	<p>external, available as accessory</p>	<p>count contour points contour comparison brightness contrast area size count areas pattern comparison color identification color positioning</p>	<p>C-mount</p>
	<p>VS XC700M12X00 IP</p>	<p>1280 × 960 px</p>	<p>-</p>	<p>part location on contours part location on edges part location on circle part location on text line</p>	<p>distance circle angle count edges point position edge characteristics</p>	<p>external, available as accessory</p>	<p>count contour points contour comparison brightness contrast area size count areas pattern comparison</p>	<p>C-mount</p>
	<p>VS XC100M20X00 EP</p>	<p>1600 × 1200 px</p>	<p>-</p>	<p>part location on contours part location on edges part location on circle part location on text</p>	<p>distance circle angle count edges point position edge</p>	<p>direct connection (integrated flash controller)</p>	<p>count contour points contour comparison brightness contrast area size count areas pattern comparison</p>	<p>C-mount</p>

	<p>VS XC100M20X00 RP</p>	<p>1600 × 1200 px</p>	<p>-</p>	<p>line</p>	<p>char acte risti cs</p>	<p>direct connection (integrated flash controller)</p>	<p>count contour points contour comparison brightness contrast area size count areas pattern comparison</p>	<p>C- mount</p>
	<p>VS XC700M20X00 IP</p>	<p>1600 × 1200 px</p>	<p>-</p>	<p>part location on contour s part location on edges part location on circle part location on text line</p>	<p>dist anc e circl e angl e cou nt edg es poin t posi tion edg e char acte risti cs</p>	<p>external, available as accessory</p>	<p>count contour points contour comparison brightness contrast area size count areas pattern comparison</p>	<p>C- mount</p>
	<p>VS XC200C03X00 RP</p>	<p>640 × 480 px</p>	<p>barcode matrix code text</p>	<p>part location on contour s part location on edges part location</p>	<p>dist anc e circl e angl e cou nt edg es</p>	<p>direct connection (integrated flash controller)</p>	<p>count contour points contour comparison area size count areas pattern comparison color identification</p>	<p>C- mount</p>


				on circle part location on text line	point position edge characteristics		color positioning	
	VS XC200C12X00 RP	1280 × 960 px	barcode matrix code text	part location on contours part location on edges part location on circle part location on text line	distance circle angle count edges point position edge characteristics	direct connection (integrated flash controller)	count contour points contour comparison area size count areas pattern comparison color identification color positioning	C- mount
	VS XC200M03X00 EP	640 × 480 px	barcode matrix code text	part location on contours part location on edges part location on circle part location on text line	distance circle angle count edges point position edge characteristics	direct connection (integrated flash controller)	count contour points contour comparison brightness contrast area size count areas pattern comparison	C- mount

	<p>VS XC200M03X00 RP</p>	<p>640 × 480 px</p>	<p>barcode matrix code text</p>	<p>part location on contour s part location on edges part location on circle part location on text line</p>	<p>dist anc e circl e angl e cou nt edg es poin t posi tion edg e char acte risti cs</p>	<p>direct connection (integrated flash controller)</p>	<p>count contour points contour comparison brightness contrast area size count areas pattern comparison</p>	<p>C- mount</p>
	<p>VS XC800C03X00 IP</p>	<p>640 × 480 px</p>	<p>barcode matrix code text</p>	<p>part location on contour s part location on edges part location on circle part location on text line</p>	<p>dist anc e circl e angl e cou nt edg es poin t posi tion edg e char acte risti cs</p>	<p>external, available as accessory</p>	<p>count contour points contour comparison brightness contrast area size count areas pattern comparison color identification color positioning</p>	<p>C- mount</p>
	<p>VS XC800M03X00 IP</p>	<p>640 × 480 px</p>	<p>barcode matrix code text</p>	<p>part location on contour s part location on edges part location on circle part location on text</p>	<p>dist anc e circl e angl e cou nt edg es poin t posi tion edg e</p>	<p>external, available as accessory</p>	<p>count contour points contour comparison brightness contrast area size count areas pattern comparison</p>	<p>C- mount</p>

	<p>VS XC200M12X00 EP</p>	<p>1280 × 960 px</p>	<p>barcode matrix code text</p>	<p>line</p> <p>part location on contour s part location on edges part location on circle part location on text line</p>	<p>char acte risti cs</p> <p>dist anc e circl e angl e cou nt edg es poin t posi tion edg e char acte risti cs</p>	<p>direct connection (integrated flash controller)</p>	<p>count contour points contour comparison brightness contrast area size count areas pattern comparison</p>	<p>C- mount</p>
	<p>VS XC200M12X00 RP</p>	<p>1280 × 960 px</p>	<p>barcode matrix code text</p>	<p>part location on contour s part location on edges part location on circle part location on text line</p>	<p>dist anc e circl e angl e cou nt edg es poin t posi tion edg e char acte risti cs</p>	<p>direct connection (integrated flash controller)</p>	<p>count contour points contour comparison brightness contrast area size count areas pattern comparison</p>	<p>C- mount</p>
	<p>VS XC800C12X00 IP</p>	<p>1280 × 960 px</p>	<p>barcode matrix code text</p>	<p>part location on contour s part location on edges part location</p>	<p>dist anc e circl e angl e cou nt edg es</p>	<p>external, available as accessory</p>	<p>count contour points contour comparison brightness contrast area size count areas pattern comparison</p>	<p>C- mount</p>

				on circle part location on text line	point position edge characteristics		color identification color positioning	
	VS XC800M12X00 IP	1280 × 960 px	barcode matrix code text	part location on contours part location on edges part location on circle part location on text line	distance circle angle count edges point position edge characteristics	external, available as accessory	count contour points contour comparison brightness contrast area size count areas pattern comparison	C- mount
	VS XC200M20X00 EP	1600 × 1200 px	barcode matrix code text	part location on contours part location on edges part location on circle part location on text line	distance circle angle count edges point position edge characteristics	direct connection (integrated flash controller)	count contour points contour comparison brightness contrast area size count areas pattern comparison	C- mount

	<p>VS XC200M20X00 RP</p>	<p>1600 × 1200 px</p>	<p>barcode matrix code text</p>	<p>part location on contour s part location on edges part location on circle part location on text line</p>	<p>dist anc e circl e angl e cou nt edg es poin t posi tion edg e char acte risti cs</p>	<p>direct connection (integrated flash controller)</p>	<p>count contour points contour comparison brightness contrast area size count areas pattern comparison</p>	<p>C- mount</p>
	<p>VS XC800M20X00 IP</p>	<p>1600 × 1200 px</p>	<p>barcode matrix code text</p>	<p>part location on contour s part location on edges part location on circle part location on text line</p>	<p>dist anc e circl e angl e cou nt edg es poin t posi tion edg e char acte risti cs</p>	<p>external, available as accessory</p>	<p>count contour points contour comparison brightness contrast area size count areas pattern comparison</p>	<p>C- mount</p>
	<p>VS XF100M03I16 EP</p>	<p>752 × 480 px</p>	<p>-</p>	<p>part location on contour s part location on edges part location on circle part location on text</p>	<p>dist anc e circl e angl e cou nt edg es poin t posi tion edg e</p>	<p>integrated, LED infrared (860 nm)</p>	<p>count contour points contour comparison brightness contrast area size count areas pattern comparison</p>	<p>16 mm</p>

				line	char acte risti cs			
	VS XF700M031161 P	752 × 480 px	-	part location on contour s part location on edges part location on circle part location on text line	dist anc e circl e angl e cou nt edg es poin t posi tion edg e char acte risti cs	integrated, LED infrared (860 nm)	count contour points contour comparison brightness contrast area size count areas pattern comparison	

Where GenCP is not supported you may use Baumer Camera Link® SDK for configuration and evaluation of LX cameras. It includes a configuration tool for easy camera function testing, configuration and extended functions such as events. This allows for quick evaluation of even complex functions. GenICam™ reference implementation serves camera integration by providing individual, LX functionality-specific examples such as how to apply the checksum.

The matching software for our industrial cameras

„Our product compatibility is your flexibility“

You may use the Baumer GAPI or Camera Link® SDK as well as third party software for evaluation or implementation of the Baumer industrial cameras. With full compliance to GenICam™ and the relevant interface standards and thanks to consistent compatibility tests and close cooperation with providers, Baumer industrial cameras are easy to integrate and offer a high level of flexibility.

"Simple to succeed"

The Baumer Application Suite is the intuitive configuration software for *VeriSens*® vision sensors, which makes it quick and simple for even new users to implement image processing tasks. Starting with the creation of test tasks through to the management of jobs, the program will take you through just a few steps to reach your goal.

Cost free – carry out test tasks offline

The Application Suite offers an Offline mode, which you can use to simulate *VeriSens*® vision sensors in full. If no equipment is available, a simple digital camera will suffice to create application images and then evaluate them with the help of the software. You can get to know *VeriSens*® without spending one red cent.

VeriSens® web interface – configurable user interface for operation

A configurable human-machine interface is already integrated for customers who want to configure *VeriSens*® also during the production process. It is the first user interface of a vision sensor that can be adapted regarding functional range, user groups and design with just a few clicks, saving users standard programming work. The *VeriSens*® web interface runs in standard web browsers and does not require any plug-ins.

"Build a complete system with the right accessories"




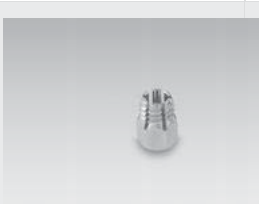
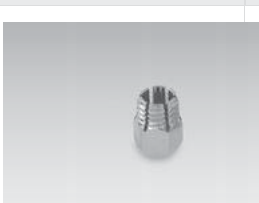
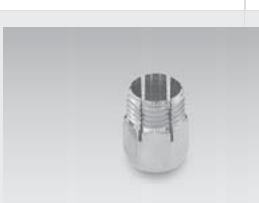


Accessories for industrial cameras and vision sensors





There is more to a high-quality image processing system than just a high-performing industrial camera or intuitive vision sensor. The overall system is always only as good as its individual components. That's why we offer you all you need from one source: Our accessories are specially tested and harmonized to ensure the optimum match. In this way, we support you in the easy and quick integration of our cameras and vision sensors and significantly contribute towards long-term stability and reliability of your image processing application.

Productfinder Accessories








sample picture	product family	description	features
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	<p>MMRN Permanent magnet</p> <p>Peripherals</p>	-	<ul style="list-style-type: none"> • Magnet: Neodymium-Iron-Boron (NdFeB) • Energy product: 280 kJ/m³ • Operating temperature: -40 ... +100 °C • Quantity: 10 pieces
	<p>Adapter for glass fiber optic sensors 30</p> <p>Lenses / apertures / glass covers</p>	Adapter for fiber optic cables type A	<ul style="list-style-type: none"> • Material: POM
	<p>Adapter set MZZA 01 for standard slots</p> <p>Mounting accessories</p>	Adapter set for standard slots	<ul style="list-style-type: none"> • Type 1: C slot sensors in T slots • Type 1: C slot sensors in davetail slots • Type 3: T slot sensors in davetail slots • Type 4: C and T slot sensors with additional fastening clamp or mounting bracket
	<p>Adapter set MZZA 02 for special slots</p> <p>Mounting accessories</p>	Adapter set for special slots	<ul style="list-style-type: none"> • Type 1 - 4: T slot sensors in special slots • Type 5: T slot sensors with additional fastening clamp for round cylinders
	<p>Adjusting plate for glass fiber optic sensors 18 (replace)</p> <p>Lenses / apertures / glass covers</p>	-	<ul style="list-style-type: none"> • Material: PETP • For re-orders when lost • Enclosed with every glass fiber optic of type A
	<p>Bracket for profiles sensor series 04</p> <p>Mounting accessories</p>	-	<ul style="list-style-type: none"> • Material: Aluminum
	<p>Cap nut for glass fiber optic sensors 15 (replace)</p> <p>Lenses / apertures / glass covers</p>	-	<ul style="list-style-type: none"> • Material: Nickel-plated brass • For re-orders when lost • Enclosed with every glass fiber optic of type B
	<p>Cap nut for glass fiber optic sensors 18 (replace)</p> <p>Lenses / apertures / glass covers</p>	-	<ul style="list-style-type: none"> • Material: POM • For re-orders when lost • Enclosed with every glass fiber optic of type A









	<p>Cap nut for photoelectric sensors series 18</p> <p>Lenses / apertures / glass covers</p>	-	<ul style="list-style-type: none"> • Material: Nickel-plated brass
	<p>Cap nut for photoelectric sensors series 18</p> <p>Lenses / apertures / glass covers</p>	-	<ul style="list-style-type: none"> • Material: Nickel-plated brass
	<p>Cap nut for photoelectric sensors series 30</p> <p>Lenses / apertures / glass covers</p>	-	<ul style="list-style-type: none"> • Material: Nickel-plated brass
	<p>Clamping nut for sensors Ø 3 mm</p> <p>Mounting accessories</p>	-	-
	<p>Clamping nut for sensors Ø 4 mm</p> <p>Mounting accessories</p>	-	-
	<p>Clamping nut for sensors Ø 6,5 mm</p> <p>Mounting accessories</p>	-	-
	<p>Clamping nut ZPART-M18.NUT for sensors Ø 18 mm (replace)</p> <p>Mounting accessories</p>	-	<ul style="list-style-type: none"> • Material: Plastic (ABS TERLURAN) • For re-orders when lost
	<p>Cutting tool</p> <p>Mounting accessories</p>	-	<ul style="list-style-type: none"> • Delivered with every plastic fiber optic








	<p>Doubling lens for sensors serie 18</p> <p>Lenses / apertures / glass covers</p>	<p>-</p>	<ul style="list-style-type: none"> • Material: PBTP / glass • For double the sensing distance FZAM 18
	<p>Doubling lens for sensors serie 30</p> <p>Lenses / apertures / glass covers</p>	<p>-</p>	<ul style="list-style-type: none"> • Material: PC / glass • For double the sensing distance FZAM 30
	<p>Doubling lens M2,6 (side view version)</p> <p>Lenses / apertures / glass covers</p>	<p>Doubling lens for fiber optic cables</p>	<ul style="list-style-type: none"> • Side view version • Increases the actual range Sb by a factor of 6 • Contents: 2 pieces
	<p>Doubling lens M2,6</p> <p>Lenses / apertures / glass covers</p>	<p>Doubling lens for fiber optic cables</p>	<ul style="list-style-type: none"> • Increases the actual range Sb by a factor of 6 • Contents: 2 pieces
	<p>Doubling lens M3</p> <p>Lenses / apertures / glass covers</p>	<p>Doubling lens for fiber optic cables</p>	<ul style="list-style-type: none"> • Material: brass / glass • Increases the actual range Sb by a factor of 6 • Contents: 2 pieces
	<p>Doubling lens M4</p> <p>Lenses / apertures / glass covers</p>	<p>Doubling lens for fiber optic cables</p>	<ul style="list-style-type: none"> • Material: brass / glass • Increases the actual range Sb by a factor of 6 • Contents: 2 pieces
	<p>ES 14</p> <p>Connectors and mating connectors</p>	<p>Cable socket M12 angular, not pre-assembled</p>	<ul style="list-style-type: none"> • Connector female unshielded • Connector only, no cable supplied • 4 and 5 pin versions
	<p>ES 18</p> <p>Connectors and mating connectors</p>	<p>Cable socket M12 straight, not pre-assembled</p>	<ul style="list-style-type: none"> • Connector female unshielded • Connector only, no cable supplied • 4 and 5 pin versions









	<p>ES 21</p> <p>Connectors and mating connectors</p>	<p>Cable socket M8 straight, not pre-assembled</p>	<ul style="list-style-type: none"> • Connector female unshielded • Connector only, no cable supplied • 3 and 4 pin version
	<p>ES 22</p> <p>Connectors and mating connectors</p>	<p>Cable socket M8 angular, not pre-assembled</p>	<ul style="list-style-type: none"> • Connector female unshielded • Connector only, no cable supplied • 3 and 4 pin versions
	<p>ESG 05</p> <p>Connectors and mating connectors</p>	<p>Connector M5 straight</p>	<ul style="list-style-type: none"> • Connector unshielded • Miniature version • Cable coating PUR
	<p>ESG 05G</p> <p>Connectors and mating connectors</p>	<p>Connector M5 straight, shielded</p>	<ul style="list-style-type: none"> • Connector shielded • Miniature version • Cable coating PUR
	<p>ESG 09</p> <p>Connectors and mating connectors</p>	<p>Connector Ø 8 mm straight, snap-in</p>	<ul style="list-style-type: none"> • Connector unshielded "snap-in" • 3 pin versions • Cable coating PUR • Halogen-free • Suitable for flexible cable carriers • UL listed, number E315836
	<p>ESG 16/KSG 16</p> <p>Connection cables</p>	<p>M16 straight connector to M16 straight mating connector</p>	<ul style="list-style-type: none"> • adapter connecting cables, from Denex 7-pins to Scatec 6-pins • Insulation material: halogen-free PUR • In lengths from 0,3 m
	<p>ESG 32/KSG 32AH</p> <p>Connection cables</p>	<p>M8 straight connector to M8 straight mating connector</p>	<ul style="list-style-type: none"> • Unshielded connecting cables, 4- pins • Insulation material: halogen-free PUR • Suitable for flexible cable carriers • In lengths from 0,2 m to 10 m
	<p>ESG 32/KSG 32SH</p> <p>Connection cables</p>	<p>M8 straight connector to M8 straight mating connector</p>	<ul style="list-style-type: none"> • Unshielded connecting cables, 3- pins • Insulation material: halogen-free PUR • Suitable for flexible cable carriers • In lengths from 0,25 m to 5 m









	<p>ESG 32/KSG 34</p> <p>Connection cables</p>	<p>M8 straight connector to M12 straight mating connector</p>	<ul style="list-style-type: none"> • Unshielded connecting cables, 3- and 4- pins • Insulation material: halogen-free PUR • Suitable for flexible cable carriers • In lengths from 0,3 m to 2 m
	<p>ESG 32</p> <p>Connectors and mating connectors</p>	<p>Connector M8 straight</p>	<ul style="list-style-type: none"> • Connector unshielded • 3 and 4 pin versions • Cable coating PUR • Halogen-free • Suitable for flexible cable carriers • UL listed, number E315836 • Meet EN 60079-25 requirements for intrinsically safe ATEX applications
	<p>ESG 32A/KSG 34AU</p> <p>Connection cables</p>	<p>M8 straight connector to M12 straight mating connector</p>	<ul style="list-style-type: none"> • Adapter, from M8 female connector to M12 male connector • 4-pins version • Unshielded • Material of grip body TPU
	<p>ESG 32F</p> <p>Connectors and mating connectors</p>	<p>Connector M8 straight, PVC/V4A</p>	<ul style="list-style-type: none"> • Connector unshielded • 3 pin version • Cable coating PVC • Cap nut material in stainless steel V4A • Suitable for flexible cable carriers
	<p>ESG 32G</p> <p>Connectors and mating connectors</p>	<p>Connector M8 straight, shielded</p>	<ul style="list-style-type: none"> • Connector shielded, screen connected with cap nut • 3 and 4 pin versions • Cable coating PUR • Halogen-free • Suitable for flexible cable carriers • UL listed, number E315836
	<p>ESG 32Y (Food)</p> <p>Connectors and mating connectors</p>	<p>Connector M8 straight, PP/V4A</p>	<ul style="list-style-type: none"> • For food & beverage industry applications • 4 pin unshielded female versions • Cable coating PP • Cap nut material in stainless steel V4A • Ecolab certified and FDA conform • Follows EHEDG design requirements
	<p>ESG 34 (Outdoor)</p> <p>Connectors and mating connectors</p>	<p>Connector M12 straight, PE-X cable</p>	<ul style="list-style-type: none"> • For outdoor applications • 4 pin versions unshielded • Cable coating PE-X • Halogen-free • Cap nut material in high grade steel (1.4401)




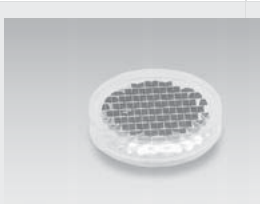




	<p>ESG 34 (Railway)</p> <p>Connectors and mating connectors</p>	<p>Connector M12 straight, shielded, RADOX cable</p>	<ul style="list-style-type: none"> • For railway applications • 4 pin versions shielded • Cable coating RADOX • Cabel according EN 45545-2
	<p>ESG 34/KSG 32</p> <p>Connection cables</p>	<p>M12 straight connector to M8 straight mating connector</p>	<ul style="list-style-type: none"> • Unshielded connecting cables, 3-pins • Insulation material: halogen-free PUR • Suitable for flexible cable carriers • In lengths from 1 m to 5 m
	<p>ESG 34/KSG 34</p> <p>Connection cables</p>	<p>M12 straight connector to M12 straight mating connector</p>	<ul style="list-style-type: none"> • Unshielded connecting cables, 3- and 4- pins • Insulation material: halogen-free PUR • Suitable for flexible cable carriers • In lengths from 0,3 m to 2 m
	<p>ESG 34</p> <p>Connectors and mating connectors</p>	<p>Connector M12 straight</p>	<ul style="list-style-type: none"> • Connector unshielded • 3, 4 and 5 pin versions • Cable coating PUR • Halogen-free • Suitable for flexible cable carriers • UL listed, number E315836
	<p>ESG 34A/KSG 32AU</p> <p>Connection cables</p>	<p>M12 straight connector to M8 straight mating connector</p>	<ul style="list-style-type: none"> • Adapter, from M12 female connector to M8 male connector • 4-pins version • Unshielded • Material of grip body TPU
	<p>ESG 34F</p> <p>Connectors and mating connectors</p>	<p>Connector M12 straight, PVC/V4A</p>	<ul style="list-style-type: none"> • Connector unshielded • 4 pin version • Cable coating PVC • Cap nut material in stainless steel V4A • Ecolab certified and FDA conform • UL listed, number E315836
	<p>ESG 34FG</p> <p>Connectors and mating connectors</p>	<p>Connector M12 straight, shielded TPE/V4A</p>	<ul style="list-style-type: none"> • Connector shielded, screen connected with cap nut • 5 and 8 pin versions • Cable coating TPE • Cap nut material in stainless steel V4A
	<p>ESG 34G (Outdoor)</p> <p>Connectors and mating connectors</p>	<p>Connector M12 straight, shielded, PE-X cable</p>	<ul style="list-style-type: none"> • For outdoor applications • 4 pin versions shielded • Cable coating PE-X • Halogen-free • Cap nut material in high grade steel (1.4401)


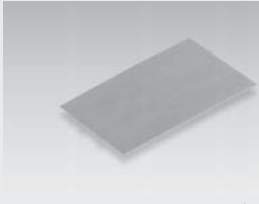



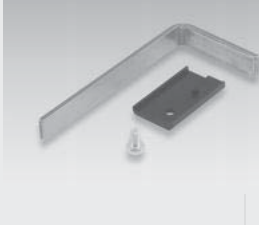
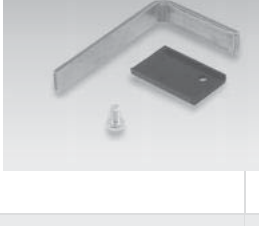

	<p>ESG 34G</p> <p>Connectors and mating connectors</p>	<p>Connector M12 straight, shielded</p>	<ul style="list-style-type: none"> • Connector shielded, screen connected with cap nut • 4, 5 and 8 pin versions • Cable coating PUR • Halogen-free • Suitable for flexible cable carriers • UL listed, number E315836
	<p>ESG 34G</p> <p>Connectors and mating connectors</p>	<p>Connector M12 straight, 12 pin shielded</p>	<ul style="list-style-type: none"> • Connector shielded, screen connected with cap nut • Cable coating PUR • Not halogen-free • Suitable for flexible cable carriers • UL listed, number E315836
	<p>ESG 34X</p> <p>Connectors and mating connectors</p>	<p>Connector M12 straight, only for ATEX applications with sensor IWRM 12I9704/S14X</p>	<ul style="list-style-type: none"> • Connector unshielded • 3 pin versions • Cable coating PUR • Halogen-free • Suitable for flexible cable carriers • UL listed, number E315836
	<p>ESG 34Y (Food)</p> <p>Connectors and mating connectors</p>	<p>Connector M12 straight, PP/V4A</p>	<ul style="list-style-type: none"> • For food & beverage industry applications • 4 pin unshielded female versions • Cable coating PP • Cap nut material in stainless steel V4A • Ecolab certified and FDA conform • Follows EHEDG design requirements
	<p>ESG 62G</p> <p>Connectors and mating connectors</p>	<p>Connector M9 straight, shielded</p>	<ul style="list-style-type: none"> • Connector shielded, screen connected with cap nut • 5 and 8 pin versions • Cable coating PUR • Suitable for flexible cable carriers
	<p>ESW 05</p> <p>Connectors and mating connectors</p>	<p>Connector M5 angular</p>	<ul style="list-style-type: none"> • Connector unshielded • Miniature version • Cable coating PUR
	<p>ESW 07/KSG 32</p> <p>Connection cables</p>	<p>Valve connector A angled to M8 straight mating connector</p>	<ul style="list-style-type: none"> • Unshielded connecting cables, 3- pins • Valve connector • Insulation material: halogen-free PUR • In lengths from 0,5 m to 2 m
	<p>ESW 08</p> <p>Connectors and mating connectors</p>	<p>Connector Ø 8 mm angular, snap-in</p>	<ul style="list-style-type: none"> • Connector unshielded "snap-in" • 3 pin versions • Cable coating PUR • Halogen-free • Suitable for flexible cable carriers • UL listed, number E315836

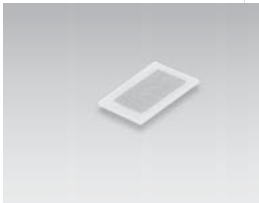





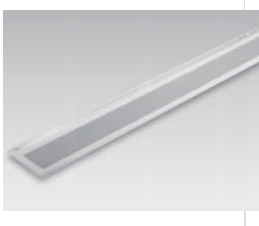
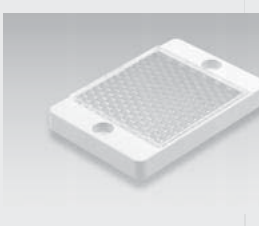
	<p>ESW 16/KSG 16</p> <p>Connection cables</p>	<p>M16 angled connector to M16 straight mating connector</p>	<ul style="list-style-type: none"> • adapter connecting cables, from Denex 7-pins to Scatec 6-pins • Insulation material: halogen-free PUR • In lengths from 0,3 m
	<p>ESW 31/KSG 34</p> <p>Connection cables</p>	<p>M8 angled connector to M12 straight mating connector</p>	<ul style="list-style-type: none"> • Unshielded connecting cables, 3- and 4- pins • Insulation material: halogen-free PUR • Suitable for flexible cable carriers • In lengths from 0,6 m to 3,5 m
	<p>ESW 31</p> <p>Connectors and mating connectors</p>	<p>Connector M8 angular</p>	<ul style="list-style-type: none"> • Connector unshielded • 3 and 4 pin versions • Cable coating PUR • Halogen-free • Suitable for flexible cable carriers • UL listed, number E315836 • Meet EN 60079-25 requirements for intrinsically safe ATEX applications
	<p>ESW 31A/KSG 32</p> <p>Connection cables</p>	<p>M8 angled connector to M8 straight mating connector</p>	<ul style="list-style-type: none"> • Unshielded connecting cables, 3- and 4- pins • Insulation material: halogen-free PUR • Suitable for flexible cable carriers • In lengths from 0,25 m to 5 m
	<p>ESW 31G</p> <p>Connectors and mating connectors</p>	<p>Connector M8 angular, shielded</p>	<ul style="list-style-type: none"> • Connector shielded, screen connected with cap nut • 3 and 4 pin versions • Cable coating PUR • Halogen-free • Suitable for flexible cable carriers • UL listed, number E315836
	<p>ESW 31S/KSG 32S</p> <p>Connection cables</p>	<p>M8 angled connector to M8 straight mating connector</p>	<ul style="list-style-type: none"> • Unshielded connecting cables, 3-pins • Insulation material: halogen-free PUR • Suitable for flexible cable carriers • In lengths from 0,25 m to 5 m
	<p>ESW 31Y (Food)</p> <p>Connectors and mating connectors</p>	<p>Connector M8 angular, PP/V4A</p>	<ul style="list-style-type: none"> • For food & beverage industry applications • 4 pin unshielded female versions • Cable coating PP • Cap nut material in stainless steel V4A • Ecolab certified and FDA conform • Follows EHEDG design requirements

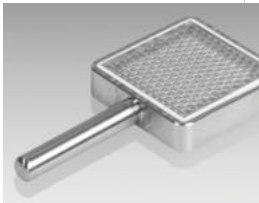

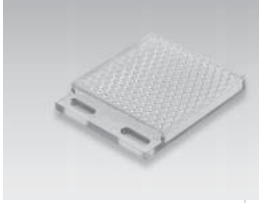
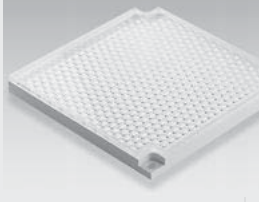




	<p>ESW 33 (Railway)</p> <p>Connectors and mating connectors</p>	<p>Connector M12 angular, shielded, RADOX cable</p>	<ul style="list-style-type: none"> • For railway applications • 4 pin versions shielded • Cable coating RADOX • Cabel according EN 45545-2
	<p>ESW 33/KSG 32</p> <p>Connection cables</p>	<p>M12 angled connector to M8 straight mating connector</p>	<ul style="list-style-type: none"> • Unshielded connecting cables, 3-pins • Insulation material: halogen-free PUR • Suitable for flexible cable carriers • In lengths from 0,5 m to 5 m
	<p>ESW 33/KSG 34</p> <p>Connection cables</p>	<p>M12 angled connector to M12 straight mating connector</p>	<ul style="list-style-type: none"> • Unshielded connecting cables, 3- and 4- pins • Insulation material: halogen-free PUR • Suitable for flexible cable carriers • In lengths from 1 m to 2 m
	<p>ESW 33</p> <p>Connectors and mating connectors</p>	<p>Connector M12 angular</p>	<ul style="list-style-type: none"> • Connector unshielded • 3, 4 and 5 pin versions • Cable coating PUR • Halogen-free • Suitable for flexible cable carriers • UL listed, number E315836
	<p>ESW 33F</p> <p>Connectors and mating connectors</p>	<p>Connector M12 angular, PVC/V4A</p>	<ul style="list-style-type: none"> • Connector unshielded • 4 pin version • Cable coating PVC • Cap nut material in stainless steel V4A • Ecolab certified and FDA conform • UL listed, number E315836
	<p>ESW 33G</p> <p>Connectors and mating connectors</p>	<p>Connector M12 angular, shielded</p>	<ul style="list-style-type: none"> • Connector shielded, screen connected with cap nut • 4, 5 and 8 pin versions • Cable coating PUR • Halogen-free • Suitable for flexible cable carriers • UL listed, number E315836
	<p>ESW 33G</p> <p>Connectors and mating connectors</p>	<p>Connector M12 angular, 12 pin shielded</p>	<ul style="list-style-type: none"> • Connector shielded, screen connected with cap nut • Cable coating PUR • Not halogen-free • Suitable for flexible cable carriers • UL listed, number E315836
	<p>ESW 33X</p> <p>Connectors and mating connectors</p>	<p>Connector M12 angular, only for ATEX applications with sensor IWRM 12I9704/S14X</p>	<ul style="list-style-type: none"> • Connector unshielded • 3 pin versions • Cable coating PUR • Halogen-free • Suitable for flexible cable carriers • UL listed, number E315836








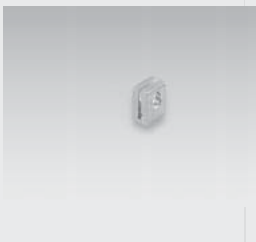
	<p>ESW 33Y (Food)</p> <p>Connectors and mating connectors</p>	<p>Connector M12 angular, PP/V4A</p>	<ul style="list-style-type: none"> • For food & beverage industry applications • 4 pin unshielded female versions • Cable coating PP • Cap nut material in stainless steel V4A • Ecolab certified and FDA conform • Follows EHEDG design requirements
	<p>ESW 61G</p> <p>Connectors and mating connectors</p>	<p>Connector M9 angular, shielded</p>	<ul style="list-style-type: none"> • Connector shielded, screen connected with cap nut • 5 pin version • Cable coating PUR • Suitable for flexible cable carriers
	<p>Fastening clamps MZZB 01 for micro cylinders</p> <p>Mounting accessories</p>	<p>Fastening clamps for micro cylinders</p>	<ul style="list-style-type: none"> • Diameter: \varnothing 8 ... 25 mm • Material: PA AISI 303
	<p>Fastening clamps MZZB 02 for round cylinders</p> <p>Mounting accessories</p>	<p>Fastening clamps for round cylinders</p>	<ul style="list-style-type: none"> • Diameter: \varnothing 11 ... 65 mm • Material: PA AISI 303
	<p>Fiber optic cable extension</p> <p>Mounting accessories</p>	<p>-</p>	<ul style="list-style-type: none"> • Reduction in range due to fiber optic extension: 2 m = approx. 25% • Reduction in range due to fiber optic extension: 5 m = approx. 60%
	<p>Focusing lens M3 \varnothing 0,1 mm</p> <p>Lenses / apertures / glass covers</p>	<p>Focusing lens for fiber optic cables</p>	<ul style="list-style-type: none"> • Light spot \varnothing 0,1 mm at a distance of 4,6 mm
	<p>Focusing lens M3 \varnothing 0,4 mm</p> <p>Lenses / apertures / glass covers</p>	<p>Focusing lens for fiber optic cables</p>	<ul style="list-style-type: none"> • Light spot \varnothing 0,4 mm at a distance of 7 mm
	<p>Focusing lens M3 \varnothing 2 mm</p> <p>Lenses / apertures / glass covers</p>	<p>Focusing lens for fiber optic cables</p>	<ul style="list-style-type: none"> • Light spot \varnothing 2 mm at a distance of 19 mm









	<p>FTAR 013</p> <p>Reflectors</p>	<p>-</p>	<ul style="list-style-type: none"> • Fastening method self-adhesive • Micro structure • For Retro-reflective sensors
	<p>FTAR 014</p> <p>Reflectors</p>	<p>-</p>	<ul style="list-style-type: none"> • Fastening method self-adhesive • For Retro-reflective sensors
	<p>FTAR 019</p> <p>Reflectors</p>	<p>-</p>	<ul style="list-style-type: none"> • Fastening method self-adhesive • For Retro-reflective sensors
	<p>FTAR 020</p> <p>Reflectors</p>	<p>-</p>	<ul style="list-style-type: none"> • Fastening method self-adhesive • Micro structure • For Retro-reflective sensors
	<p>FTAR 038</p> <p>Reflectors</p>	<p>-</p>	<ul style="list-style-type: none"> • Fastening method self-adhesive • For Retro-reflective sensors
	<p>FTDF 005</p> <p>Reflectors</p>	<p>-</p>	<ul style="list-style-type: none"> • Fastening method self-adhesive • For pocket-size edge sensor PosCon
	<p>FTDF 012</p> <p>Reflectors</p>	<p>-</p>	<ul style="list-style-type: none"> • Fastening method self-adhesive • For pocket-size edge sensor ParCon
	<p>FTDF 020</p> <p>Reflectors</p>	<p>-</p>	<ul style="list-style-type: none"> • Fastening method self-adhesive • For pocket-size edge sensor PosCon

	<p>FTDF 020F Reflectors</p>	<p>-</p>	<ul style="list-style-type: none"> • Fastening method self-adhesive • For laser light sensors
	<p>FTDF 035 Reflectors</p>	<p>-</p>	<ul style="list-style-type: none"> • Fastening method self-adhesive • For pocket-size edge sensor ParCon
	<p>FTDF 035I Reflectors</p>	<p>-</p>	<ul style="list-style-type: none"> • Fastening method self-adhesive • For pocket-size edge sensor PosCon
	<p>FTDF 050 Reflectors</p>	<p>-</p>	<ul style="list-style-type: none"> • Fastening method self-adhesive • For pocket-size edge sensor ParCon
	<p>FTDR 005 Reflectors</p>	<p>-</p>	<ul style="list-style-type: none"> • Fastening method screw mounting • For pocket-size edge sensor PosCon
	<p>FTDR 008/01 Reflectors</p>	<p>-</p>	<ul style="list-style-type: none"> • Bracket with reflective tape • For pocket-size edge sensor ParCon
	<p>FTDR 008/21 Reflectors</p>	<p>-</p>	<ul style="list-style-type: none"> • Bracket with reflective tape • For pocket-size edge sensor ParCon
	<p>FTDR 010A Reflectors</p>	<p>-</p>	<ul style="list-style-type: none"> • Fastening method self-adhesive • For Retro-reflective sensors

	<p>FTDR 010D Reflectors</p>	<p>-</p>	<ul style="list-style-type: none"> • Fastening method self-adhesive • For laser light sensors
	<p>FTDR 015 Reflectors</p>	<p>-</p>	<ul style="list-style-type: none"> • Fastening method self-adhesive • For Retro-reflective sensors
	<p>FTDR 017 Reflectors</p>	<p>-</p>	<ul style="list-style-type: none"> • Fastening method screw mounting • Micro structure • For Retro-reflective sensors
	<p>FTDR 017W Reflectors</p>	<p>-</p>	<ul style="list-style-type: none"> • Stainless steel reflector for SmartReflect in hygiene design • EHEDG-certified
	<p>FTDR 020 Reflectors</p>	<p>-</p>	<ul style="list-style-type: none"> • Fastening method screw mounting • For pocket-size edge sensor PosCon
	<p>FTDR 029 Reflectors</p>	<p>-</p>	<ul style="list-style-type: none"> • Fastening method self-adhesive • For Retro-reflective sensors
	<p>FTDR 035 Reflectors</p>	<p>-</p>	<ul style="list-style-type: none"> • Fastening method screw mounting • For pocket-size edge sensor PosCon
	<p>FTDR 047 Reflectors</p>	<p>-</p>	<ul style="list-style-type: none"> • Fastening method screw mounting • For Retro-reflective sensors

	<p>FTDR 047W Reflectors</p>	<p>-</p>	<ul style="list-style-type: none"> • Stainless steel reflector for retro-reflective sensor in hygiene design • EHEDG-certified
	<p>FTDR 050 Reflectors</p>	<p>-</p>	<ul style="list-style-type: none"> • Stainless steel reflector for SmartReflect in washdown design • Material: Stainless steel V4A
	<p>FTDR 051 Reflectors</p>	<p>-</p>	<ul style="list-style-type: none"> • Detergent resistant reflector • Ecolab approved • For Retro-reflective sensors
	<p>FTDR 084 Reflectors</p>	<p>-</p>	<ul style="list-style-type: none"> • Fastening method screw mounting • For Retro-reflective sensors
	<p>Glass cover for sensors series 18 Lenses / apertures / glass covers</p>	<p>-</p>	<ul style="list-style-type: none"> • Material: glass
	<p>Glass cover for sensors series 30 Lenses / apertures / glass covers</p>	<p>-</p>	<ul style="list-style-type: none"> • Material: glass
	<p>KSG 32 Connectors and mating connectors</p>	<p>Connector M8 straight</p>	<ul style="list-style-type: none"> • Connector male unshielded • 3 pin versions • Cable coating PUR • Halogen-free • Suitable for flexible cable carriers • UL listed, number E315836
	<p>KSG 34/KSG 45 Connection cables</p>	<p>Ethernet cable; connector M12, straight to RJ45 mating connector</p>	<ul style="list-style-type: none"> • Ethernet connecting cable M12 - RJ45, shielded • Cable coating PUR • Screen connected with cap nut • In lengths from 2 m to 10 m

	<p>KSW 30</p> <p>Connectors and mating connectors</p>	<p>Connector Ø 8 mm angular, snap-in</p>	<ul style="list-style-type: none"> • Connector male unshielded "snap-in" • 2 pin version • Cable coating PVC
	<p>Lens cleaning air nozzle bracket</p> <p>Mounting accessories</p>	<p>-</p>	<ul style="list-style-type: none"> • Material: Steel
	<p>Minofix-Mounting kit for MINOS</p> <p>Mounting accessories</p>	<p>-</p>	<ul style="list-style-type: none"> • Material: brass nickel-plated
	<p>MMFN Permanentmagnet</p> <p>Peripherals</p>	<p>-</p>	<ul style="list-style-type: none"> • Magnet: Neodymium-Iron-Boron (NdFeB) • Energy product: 280 kJ/m³ • Operating temperature: -40 ... +100 °C • Quantity: 10 pieces
	<p>MMFS Permanentmagnet</p> <p>Peripherals</p>	<p>-</p>	<ul style="list-style-type: none"> • Magnet: Samarium-Cobalt (SmCo₅) • Energy product: 190 kJ/m³ • Operating temperature: -40 ... +180 °C • Quantity: 10 pieces
	<p>MMRH Permanentmagnet</p> <p>Peripherals</p>	<p>-</p>	<ul style="list-style-type: none"> • Magnet: Hard ferrite (SrFe) • Energy product: 30 kJ/m³ • Operating temperature: -25 ... +130 °C • Quantity: 5 pieces
	<p>MMRS Permanentmagnet</p> <p>Peripherals</p>	<p>-</p>	<ul style="list-style-type: none"> • Magnet: Samarium-Cobalt (SmCo₅) • Energy product: 190 kJ/m³ • Operating temperature: -40 ... +180 °C • Quantity: 10 pieces
	<p>Mounting bracket 1,1 mm</p> <p>Mounting accessories</p>	<p>Mounting bracket for fiber optic cables</p>	<ul style="list-style-type: none"> • Material: Aluminum

	<p>Mounting bracket 2,2 mm</p> <p>Mounting accessories</p>	<p>Mounting bracket for fiber optic cables</p>	<ul style="list-style-type: none"> • Material: Aluminum
	<p>Mounting bracket 20 mm</p> <p>Mounting accessories</p>	<p>-</p>	<ul style="list-style-type: none"> • Material: Polypropylene (PP)
	<p>Mounting bracket 6,5 mm</p> <p>Mounting accessories</p>	<p>-</p>	<ul style="list-style-type: none"> • Material: Plastic (PA6)
	<p>Mounting bracket 8 mm</p> <p>Mounting accessories</p>	<p>-</p>	<ul style="list-style-type: none"> • Material: Plastic (PA6)
	<p>Mounting bracket for adjustment ZADAP-M18.MICRO series 18</p> <p>Mounting accessories</p>	<p>Alignment aid for fine adjustment for sensors series 18</p>	<ul style="list-style-type: none"> • Material: Steel galvanized
	<p>Mounting bracket for adjustment ZADAP-M18.SWING series 18</p> <p>Mounting accessories</p>	<p>Alignment aid for adjustment for sensors series 18</p>	<ul style="list-style-type: none"> • Material: Plastic (ABS TERLURAN)
	<p>Mounting bracket for fiber optic sensors series 12</p> <p>Mounting accessories</p>	<p>-</p>	<ul style="list-style-type: none"> • Material: Steel • Delivered with every plastic fiber optic sensor series 12
	<p>Mounting bracket for fiber optic sensors series 22</p> <p>Mounting accessories</p>	<p>-</p>	<ul style="list-style-type: none"> • Material: Steel • Delivered with every plastic fiber optic sensor series 22



	<p>Mounting bracket for fiber optic sensors series 60</p> <p>Mounting accessories</p>	-	<ul style="list-style-type: none"> • Material: Steel • Must be ordered separately for series 66 and series 67 sensors
	<p>Mounting bracket for fine adjustment series 16</p> <p>Mounting accessories</p>	-	<ul style="list-style-type: none"> • Material: Steel
	<p>Mounting bracket for Logipal/PosCon</p> <p>Mounting accessories</p>	-	<ul style="list-style-type: none"> • Material: Steel
	<p>Mounting bracket for sensor OxDM 20</p> <p>Mounting accessories</p>	-	<ul style="list-style-type: none"> • Material: Steel
	<p>Mounting bracket for sensors O300 (L design)</p> <p>Mounting accessories</p>	Mounting bracket for sensors O300	<ul style="list-style-type: none"> • Material: Steel
	<p>Mounting bracket for sensors O300</p> <p>Mounting accessories</p>	Mounting bracket - Retrofit for sensors series 20	<ul style="list-style-type: none"> • Material: Steel
	<p>Mounting bracket for sensors O500/U500 (L design)</p> <p>Mounting accessories</p>	Mounting bracket for sensors O500/U500	<ul style="list-style-type: none"> • Material: Steel
	<p>Mounting bracket for sensors O500/U500</p> <p>Mounting accessories</p>	Mounting bracket - Retrofit for sensors series 30	<ul style="list-style-type: none"> • Material: Steel









	<p>Mounting bracket for sensors series 10 (L design)</p> <p>Mounting accessories</p>	<p>Mounting bracket for sensors series 10 (L design)</p>	<ul style="list-style-type: none"> • Material: Steel
	<p>Mounting bracket for sensors series 10 (U design)</p> <p>Mounting accessories</p>	<p>Mounting bracket for sensors series 10 (U design)</p>	<ul style="list-style-type: none"> • Material: Steel
	<p>Mounting bracket for sensors series 10</p> <p>Mounting accessories</p>	<p>Mounting bracket for sensors series 10</p>	<ul style="list-style-type: none"> • Material: Steel
	<p>Mounting bracket for sensors series 12</p> <p>Mounting accessories</p>	<p>Mounting bracket for sensors series 12</p>	<ul style="list-style-type: none"> • Material: Steel
	<p>Mounting bracket for sensors series 13</p> <p>Mounting accessories</p>	<p>Mounting bracket for sensors series 13</p>	<ul style="list-style-type: none"> • Material: Steel
	<p>Mounting bracket for sensors series 14</p> <p>Mounting accessories</p>	<p>Mounting bracket for sensors series 14</p>	<ul style="list-style-type: none"> • Material: Steel
	<p>Mounting bracket for sensors series 15</p> <p>Mounting accessories</p>	<p>Mounting bracket for sensors series 15</p>	<ul style="list-style-type: none"> • Material: Steel
	<p>Mounting bracket for sensors series 16</p> <p>Mounting accessories</p>	<p>Mounting bracket for sensors series 16</p>	<ul style="list-style-type: none"> • Material: Steel







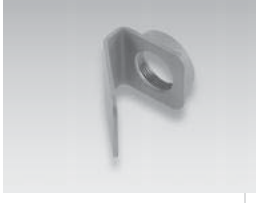

	<p>Mounting bracket for sensors series 18 round (L design)</p> <p>Mounting accessories</p>	<p>Mounting bracket for sensors series 18 (L design)</p>	<ul style="list-style-type: none"> • Material: Steel galvanized
	<p>Mounting bracket for sensors series 18 round (L design)</p> <p>Mounting accessories</p>	<p>Mounting bracket for sensors series 18 (L design)</p>	<ul style="list-style-type: none"> • Material: Steel galvanized
	<p>Mounting bracket for sensors series 18 round</p> <p>Mounting accessories</p>	<p>Mounting bracket for sensors series 18 (L design)</p>	<ul style="list-style-type: none"> • Material: Steel galvanized
	<p>Mounting bracket for sensors series 25</p> <p>Mounting accessories</p>	<p>Mounting bracket for sensors series 25</p>	<ul style="list-style-type: none"> • Material: Steel
	<p>Mounting bracket for sensors series 26</p> <p>Mounting accessories</p>	<p>Mounting bracket for sensors series 26</p>	<ul style="list-style-type: none"> • Material: Steel
	<p>Mounting bracket for Verisens (L design)</p> <p>Mounting accessories</p>	<p>-</p>	<ul style="list-style-type: none"> • Material: Steel
	<p>Mounting bracket for Verisens</p> <p>Mounting accessories</p>	<p>-</p>	<ul style="list-style-type: none"> • Material: Steel
	<p>Mounting bracket for washdown sensors series 14</p> <p>Mounting accessories</p>	<p>Mounting bracket for washdown sensors series 14</p>	<ul style="list-style-type: none"> • Material: Stainless Steel

	<p>Mounting bracket X7</p> <p>Mounting accessories</p>	<p>Mounting bracket for PosCon and MESAX 70</p>	<ul style="list-style-type: none"> • Fitting for PosCon and MESAX 70 • Mounting at an angle of 90° or 30° • Bracket and mounting hardware incl. Torx wrench
	<p>Mounting brackets MZZC 01/005 for round cylinders with tie rods 5 ... 9 mm</p> <p>Mounting accessories</p>	<p>Mounting brackets for round cylinders with tie rods 5 ... 9 mm</p>	<ul style="list-style-type: none"> • Cylinder: \varnothing 5 ... 9 mm • Material: PA AISI 303 6005A
	<p>Mounting brackets MZZC 01/032 for round cylinders with tie rods 32 ... 40 mm</p> <p>Mounting accessories</p>	<p>Mounting brackets for round cylinders with tie rods 32 ... 40 mm</p>	<ul style="list-style-type: none"> • Cylinder: \varnothing 32 ... 40 mm • Material: PA AISI 303 6005A
	<p>Mounting brackets MZZC 01/050 for round cylinders with tie rods 50 ... 63 mm</p> <p>Mounting accessories</p>	<p>Mounting brackets for round cylinders with tie rods 50 ... 63 mm</p>	<ul style="list-style-type: none"> • Cylinder: \varnothing 50 ... 63 mm • Material: PA AISI 303 6005A
	<p>Mounting brackets MZZC 01/082 for round cylinders with tie rods 82 ... 100 mm</p> <p>Mounting accessories</p>	<p>Mounting brackets for round cylinders with tie rods 82 ... 100 mm</p>	<ul style="list-style-type: none"> • Cylinder: \varnothing 82 ... 100 mm • Material: PA AISI 303 6005A
	<p>Mounting brackets MZZC 01/125 for round cylinders with tie rods 125 mm</p> <p>Mounting accessories</p>	<p>Mounting brackets for round cylinders with tie rods 125 mm</p>	<ul style="list-style-type: none"> • Cylinder: \varnothing 125 mm • Material: PA AISI 303 6005A
	<p>Mounting brad FHDK 04</p> <p>Mounting accessories</p>	<p>-</p>	<ul style="list-style-type: none"> • Material: Nickel-plated steel
	<p>Mounting HI06-1H for sensors in hygienic design \varnothing 6,5 mm</p> <p>Mounting accessories</p>	<p>-</p>	<ul style="list-style-type: none"> • Material: Stainless steel V4A • EHEDG-certified




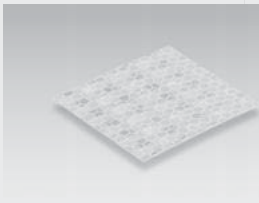

	<p>Mounting HI11-1H for sensors in hygienic design Ø 11 mm</p> <p>Mounting accessories</p>	<p>-</p>	<ul style="list-style-type: none"> • Material: Stainless steel V4A • EHEDG-certified
	<p>Mounting HI17-1H for sensors in hygienic design Ø 17 mm</p> <p>Mounting accessories</p>	<p>-</p>	<ul style="list-style-type: none"> • Material: Stainless steel V4A • EHEDG-certified
	<p>Mounting kit for CFDK 25</p> <p>Mounting accessories</p>	<p>-</p>	<ul style="list-style-type: none"> • 1 pcs. mounting frame HC25; Material PA 12 • 2 pcs. cable ties 186x4,7 mm • 2 pcs. adhesive pads • 2 pcs. spacer
	<p>Mounting panel for sensors scatec</p> <p>Mounting accessories</p>	<p>mounting plate for mounting on round rod</p>	<ul style="list-style-type: none"> • Material: Aluminum
	<p>Mounting panel for sensors series 10</p> <p>Mounting accessories</p>	<p>-</p>	<p>-</p>
	<p>MSFN Rotor with permanent magnet</p> <p>Peripherals</p>	<p>-</p>	<ul style="list-style-type: none"> • Rotor: Aluminum • Operating temperature: -40 ... +120 °C
	<p>MSFS Rotor with permanent magnet</p> <p>Peripherals</p>	<p>-</p>	<ul style="list-style-type: none"> • Rotor: Aluminum • Operating temperature: -40 ... +200 °C
	<p>PNP pulse converter M12</p> <p>Peripherals</p>	<p>-</p>	<ul style="list-style-type: none"> • Adapter for pulse stretching • For pulse stretching 1 ... 150 ms • For connector M12 - 3 pins

	<p>PNP pulse converter M8</p> <p>Peripherals</p>	-	<ul style="list-style-type: none"> • Adapter for pulse stretching • For pulse stretching 1 ... 150 ms • For connector M8 - 3 pins
	<p>PNP to NPN Converter M12</p> <p>Peripherals</p>	-	<ul style="list-style-type: none"> • PNP/NPN Converter • For frequencies up to max. 5 kHz • For connector M12 - 3 pins
	<p>PNP to NPN Converter M8</p> <p>Peripherals</p>	-	<ul style="list-style-type: none"> • PNP/NPN Converter • For frequencies up to max. 5 kHz • For connector M8 - 3 pins
	<p>Power supply for sensor test unit</p> <p>Peripherals</p>	-	<ul style="list-style-type: none"> • Input 90-260 VAC • Output 24 V/0,75 A • Interchangeable plug-Type A, C, G and I
	<p>Protector cap for OxDM 20</p> <p>Lenses / apertures / glass covers</p>	-	<ul style="list-style-type: none"> • Material: PMMA • Self-adhesive
	<p>Reduction tube</p> <p>Lenses / apertures / glass covers</p>	-	<ul style="list-style-type: none"> • Set of 2 • Delivered with every 1 mm diameter plastic fiber optic
	<p>Sensofix-Base module</p> <p>Mounting accessories</p>	-	<ul style="list-style-type: none"> • Clamps made of stainless steel • Ball pivots made of galvanized steel
	<p>Sensofix-Mounting kit for sensors O300</p> <p>Mounting accessories</p>	-	<ul style="list-style-type: none"> • Clamps made of stainless steel • Ball pivots made of galvanized steel • Mounting panel made of stainless steel

	<p>Sensofix-Mounting kit for sensors O500/U500</p> <p>Mounting accessories</p>	-	<ul style="list-style-type: none"> • Clamps made of stainless steel • Ball pivots made of galvanized steel • Mounting panel made of stainless steel
	<p>Sensofix-Mounting kit for sensors series 08 round</p> <p>Mounting accessories</p>	-	<ul style="list-style-type: none"> • Clamps made of stainless steel • Ball pivots made of galvanized steel • Mounting panel made of stainless steel
	<p>Sensofix-Mounting kit for sensors series 10/20</p> <p>Mounting accessories</p>	-	<ul style="list-style-type: none"> • Clamps made of stainless steel • Ball pivots made of galvanized steel • Mounting panel made of stainless steel
	<p>Sensofix-Mounting kit for sensors series 12 round</p> <p>Mounting accessories</p>	-	<ul style="list-style-type: none"> • Clamps made of stainless steel • Ball pivots made of galvanized steel • Mounting panel made of stainless steel
	<p>Sensofix-Mounting kit for sensors series 12</p> <p>Mounting accessories</p>	-	<ul style="list-style-type: none"> • Clamps made of stainless steel • Ball pivots made of galvanized steel • Mounting panel made of stainless steel
	<p>Sensofix-Mounting kit for sensors series 13</p> <p>Mounting accessories</p>	-	<ul style="list-style-type: none"> • Clamps made of stainless steel • Ball pivots made of galvanized steel • Mounting panel made of stainless steel
	<p>Sensofix-Mounting kit for sensors series 14</p> <p>Mounting accessories</p>	-	<ul style="list-style-type: none"> • Clamps made of stainless steel • Ball pivots made of galvanized steel • Mounting panel made of stainless steel
	<p>Sensofix-Mounting kit for sensors series 16</p> <p>Mounting accessories</p>	-	<ul style="list-style-type: none"> • Mounting panel made of stainless steel • Clamps made of stainless steel • Ball pivots made of galvanized steel

	<p>Sensofix-Mounting kit for sensors series 18 round</p> <p>Mounting accessories</p>	<p>-</p>	<ul style="list-style-type: none"> • Clamps made of stainless steel • Ball pivots made of galvanized steel • Mounting panel made of stainless steel
	<p>Sensofix-Mounting kit for sensors series 18/20</p> <p>Mounting accessories</p>	<p>-</p>	<ul style="list-style-type: none"> • Clamps made of stainless steel • Ball pivots made of galvanized steel • Mounting panel made of stainless steel
	<p>Sensofix-Mounting kit for sensors series 30</p> <p>Mounting accessories</p>	<p>-</p>	<ul style="list-style-type: none"> • Clamps made of stainless steel • Ball pivots made of galvanized steel • Mounting panel made of stainless steel
	<p>Sensofix-Mounting kit for washdown sensors series 14</p> <p>Mounting accessories</p>	<p>-</p>	<ul style="list-style-type: none"> • Clamps made of stainless steel • Ball pivots made of galvanized steel • Mounting panel made of stainless steel
	<p>Slot aperture stickers series 14</p> <p>Lenses / apertures / glass covers</p>	<p>-</p>	<ul style="list-style-type: none"> • Material: Polyester foil • Contents: 2 pieces • self-adhesive
	<p>Sonic beam deflector for ultrasonic sensors series 10</p> <p>Peripherals</p>	<p>-</p>	<ul style="list-style-type: none"> • Set of 2 included 1 x left, 1 x right
	<p>Sonic beam deflector for ultrasonic sensors series 18 round</p> <p>Peripherals</p>	<p>-</p>	<ul style="list-style-type: none"> • Sonic beam deflector for ultrasonic sensors
	<p>Sonic beam deflector for ultrasonic sensors series 20</p> <p>Peripherals</p>	<p>-</p>	<ul style="list-style-type: none"> • Sonic beam deflector for ultrasonic sensors

	<p>Sonic beam deflector for ultrasonic sensors U500</p> <p>Peripherals</p>	-	<ul style="list-style-type: none"> • Sonic beam deflector for ultrasonic sensors
	<p>Teach Pen</p> <p>Peripherals</p>	-	<ul style="list-style-type: none"> • Local Teach-in of NextGen sensors in hygienic design
	<p>Teach-in Adapter M12</p> <p>Peripherals</p>	-	-
	<p>Test unit for sensors analog & digital</p> <p>Peripherals</p>	-	<ul style="list-style-type: none"> • Output via display (V or mA) or LED (PNP/NPN) • Teach-in of sensors with integrated Teach-button • Connection for plug in power supply (available as accessory)
	<p>Test unit for sensors digital</p> <p>Peripherals</p>	-	<ul style="list-style-type: none"> • LED (red/green) for digital PNP/NPN signals • Teach-in of sensors with integrated Teach-button • Connection for plug in power supply (available as accessory)
	<p>USB IO-Link Master</p> <p>Peripherals</p>	<p>USB Master for IO-Link sensors</p>	<ul style="list-style-type: none"> • Integration of IO-Link sensors via USB • Including power supply (EU, KOR, USA, AUS, UK) and USB cable
	<p>Velcro strip cut to length for mounting frame HC25</p> <p>Mounting accessories</p>	-	<ul style="list-style-type: none"> • Base material: Polyamide • Overall thickness: 1,8 to 2,2 mm • Breaking strength: > 210 N/cm
	<p>Z-FTDF 005</p> <p>Reflectors</p>	-	<ul style="list-style-type: none"> • Fastening method self-adhesive • For pocket-size edge sensor PosCon

	<p>Z-FTDF 020</p> <p>Reflectors</p>	<p>-</p>	<ul style="list-style-type: none"> • Fastening method self-adhesive • For pocket-size edge sensor PosCon
	<p>Z-FTDF 035</p> <p>Reflectors</p>	<p>-</p>	<ul style="list-style-type: none"> • Fastening method self-adhesive • For pocket-size edge sensor PosCon
	<p>Z-FTDF 050</p> <p>Reflectors</p>	<p>-</p>	<ul style="list-style-type: none"> • Fastening method self-adhesive • For pocket-size edge sensor PosCon
	<p>Z-FTDF 050K</p> <p>Reflectors</p>	<p>-</p>	<ul style="list-style-type: none"> • Fastening method self-adhesive • For Retro-reflective sensors
	<p>Z-FTDF 610</p> <p>Reflectors</p>	<p>-</p>	<ul style="list-style-type: none"> • Fastening method self-adhesive • For pocket-size edge sensor PosCon



We offer specific hard and software compilations, termed “Starter Kits”, for quick setup of Baumer cameras or vision sensors. The Baumer GAPI and Camera Link® SDK as well as the VeriSens® Application Suite enable an immediate evaluation in your application.

- VCXU / VEXU (USB 3.0)
- VCXG / VEXG (GIGE)
- VISILINE® / VISILINE® IP (GIGE)
- VISILINE® (USB 3.0)
- MXG (GIGE)
- MXU (USB 3.0)
- LXG (GIGE)
- LXC (CAMERA LINK®)
- LXG VISUALAPPLETS (GIGE)
- PXU (USB 3.0)
- HXG (GIGE)
- HXC (CAMERA LINK®)
- TXG / EXG (GIGE)
- VERISENS® VISION SENSORS



ДАТЧИКИ УРОВНЯ

PRODUCT	MEDIUM	MEASURING PRINCIPLE	MATERIAL PROCESS CONNECTION	ACCURACY	MAX MEDIUM TEMPER ATURE	OUTPUT SIGNAL	DISPLAY
CFAK 22U9500/AMP	Oil	Point	-	±1 mm (only point level)	< 115 °C	PNP / NPN	Without
CleverLevel - LBFI	Corrosive / aggressive medium Drinking water Granulates Hygienic Oil Powder Solids Ultra pure water	Point	Stainless Steel 1.4404 (316L)	±1 mm (only point level)	< 115 °C < 80 °C	Digital push- pull PNP / NPN Two switching outputs	LED Without
CleverLevel - LBFS	Corrosive / aggressive medium Drinking water Granulates Hygienic Oil Powder Solids Ultra pure water	Point	Stainless Steel 1.4301 (304)	±1 mm (only point level)	< 115 °C < 80 °C	PNP / NPN PWM	LED Without

CleverLevel - LBFS (hanging)	Granulates Powder Solids	Point	PUR Stainless Steel 1.4301 (304)	±1 mm (only point level)	< 85 °C	PNP / NPN PWM	Without
CleverLevel LBFH	Drinking water Granulates Hygienic Oil Powder Solids Ultra pure water	Point	Stainless Steel 1.4404 (316L)	±1 mm (only point level)	< 115 °C < 80 °C	Digital push- pull PNP / NPN Two switching outputs	LED Without
CleverLevel LFFS	Corrosive / aggressive medium Drinking water Granulates Hygienic Oil Powder Solids Ultra pure water	-	Stainless Steel 1.4404 (316L)	±1 mm (only point level)	< 115 °C < 140 °C < 200 °C < 80 °C	PNP / NPN PWM	LED Without
LSKx2x	Corrosive / aggressive medium Drinking water Hygienic	Point	Stainless Steel 1.4404 (316L)	±1 mm (only point level)	< 115 °C < 140 °C < 80 °C	Relay	Without
LSKx5x	Corrosive / aggressive medium Drinking water Hygienic	Point	Stainless Steel 1.4404 (316L)	±1 mm (only point level)	< 115 °C < 140 °C < 80 °C	Relay	Without
LSP	Corrosive / aggressive medium Drinking water Hygienic	Continuous	Stainless Steel 1.4404 (316L)	0.5% FS 1.0% FS	< 115 °C < 140 °C	4 ... 20 mA	Without
PSMN	Corrosive / aggressive medium Drinking water Salt water Ultra pure water	Continuous	Stainless Steel 1.4404 (316L) Stainless Steel 1.4539 (904L)	0.25% FS	< 80 °C	0 ... 10 V 4 ... 20 mA	Without
PSSN	Corrosive / aggressive medium Drinking water Ultra pure water	Continuous	Stainless Steel 1.4404 (316L)	1.0% FS	< 80 °C	0 ... 10 V 4 ... 20 mA	Without

ДАТЧИКИ РАСХОДА

PRODUCT	MEDIUM	MEASURING PRINCIPLE	MATERIAL PROCESS CONNECTION	ACCURACY	MAX MEDIUM TEMPERATURE	OUTPUT SIGNAL	DISPLAY
FlexFlow PF20H	Drink water Ultra pure water Water Water based medias	calorimetric	Stainless steel 1.4404 (316L)	2% MEW	150° C	Digital push-pull PNP / NPN Two switching outputs	without
FlexFlow PF20S	Drink water Ultra pure water Water Water based medias	calorimetric	Stainless steel 1.4404 (316L)	2% MEW	150° C	Digital push-pull PNP / NPN Two switching outputs	without

ДАТЧИКИ ТЕМПЕРАТУРЫ



PRODUCT	TYPE	MEDIUM	ELECTRIC CONNECTION	TEMPERATURE RANGE	INPUT	ACCURACY	OUTPUT SIGNAL	DISPLAY	APPROVALS	MOUNTING
CableSensor 8141 PT100	Sensor	Standard	Cable	-50 ... 205 °C	Pt100 Pt1000	Class A Class B 1/3 Class B 1/6 Class B	Pt100 Pt1000	Without	-	-
CombiTemp TCR6	-	Standard	DIN form B	-50 ... 200 °C -50 ... 205 °C -50 ... 250 °C -50 ... 400 °C	Pt100 Pt1000	Class A Class B ±0,1 °C ±0,25 °C 1/3 Class B 1/6 Class B	HART Pt100 Pt1000 4 ... 20 mA	Without	-	-
CombiTemp TFR5	Room temperature sensor	Air	Ø80 mm, FlexHousing	-40 ... 85 °C	Pt100	Class A Class B ±0,1 °C ±0,25 °C 1/3 Class B 1/6 Class B	HART Pt100 4 ... 20 mA	Graphical colour display LCD Without	ATEX	-
CombiTemp TFRH	Sensor Transmitter	Hygienic	Ø80 mm, FlexHousing	-50 ... 200 °C -50 ... 205 °C -50 ... 250 °C	Pt100	Class A Class B ±0,1 °C ±0,25 °C 1/3 Class B 1/6 Class B	HART Pt100 4 ... 20 mA	Graphical colour display LCD Without	ATEX EHEDG 3-A	-

CombiTemp TFRN	Sensor Transmitter	Standard	Ø80 mm, FlexHousing	-50 ... 200 °C -50 ... 205 °C -50 ... 250 °C -50 ... 400 °C	Pt100	Class A Class B ±0,1 °C ±0,25 °C 1/3 Class B 1/6 Class B	HART Pt100 4 ... 20 mA	Graphical colour display LCD Without	ATEX	-
Conical cable sensor 8155	Sensor	Hygienic	Cable	-50 ... 205 °C	Pt100	Class A Class B 1/3 Class B 1/6 Class B	Pt100	Without	-	-
ETTN YTTN	Sensor	Standard	Plug	-200 ... 400°C	Pt1000	Class B	0 ... 10V MODBUS 4 ... 20 mA	LED	ATEX	-
FlexTemp 2301	Transmitter	-	-	-	Pt100	±0,25 °C	4 ... 20 mA	-	-	DIN-Rail
FlexTemp 2311	Transmitter	-	-	-	Pt100 PT500 Resistance RTD signal T/C	±0,1 °C	4 ... 20 mA	-	-	DIN-Rail
FlexTemp 2321	Transmitter	-	-	-	Pt100 Resistance RTD signal T/C	±0,1 °C	HART 4 ... 20 mA	-	-	DIN-Rail
FlexTop 2202	Transmitter	-	-	-	Pt100	±0,25 °C	4 ... 20 mA	-	ATEX	Head
FlexTop 2203	Transmitter	-	-	-	T/C	±0,25 °C	4 ... 20 mA	-	ATEX	Head
FlexTop 2204	Transmitter	-	-	-	PT500 Resistance	±4 ... 5 °C	4 ... 20 mA	-	ATEX	Head
FlexTop 2211	Transmitter	-	-	-	Pt100 PT500 Resistance RTD signal T/C	±0,1 °C	4 ... 20 mA	-	ATEX	Head
FlexTop 2221	Transmitter	-	-	-	Pt100 PT500 Resistance RTD signal	±0,1 °C	HART 4 ... 20 mA	-	ATEX	Head

					T/C				
TE2	Sensor	Hygienic Standard	Plug	-50 ... 200 °C	Pt100	Class A Class B ±0,25 °C 1/3 Class B 1/6 Class B	HART Pt100 4 ... 20 mA	Without	

PRODUCT	DESCRIPTION	NOMINAL SIZE	IMMERSION TUBE OUTLET	IMMERSION TUBE DIAMETER	INSTALLATION LENGTH	TEMPERATURE RANGE	ACCURACY (EN 13190)
Baumer TSF100 DS EN 1606	Remote measurement gas filled thermometers	100	bottom center back	6 mm 8 mm 11 mm 14 mm	100 - 1000 mm	-200 ... 800°C	Class 1
TB100	Bimetal thermometer, Installed length >= 100 mm	100	bottom center back	8 mm	100 - 1000 mm	-30 ... 500°C	<=250°C: Class 1 / >250°C: Class 2
TB160	Bimetal thermometer, Installed length >= 100 mm	160	bottom center back	8 mm	100 - 1000 mm	-30 ... 500°C	<=250°C: Class 1 / >250°C: Class 2
TB40	Small size stainless steel thermometer	40	center back	4 mm	60 - 400 mm	-30 ... 500°C	<=250°C: Class 1 / >250°C: Class 2
TB63	Small size stainless steel thermometer	63	center back	4 mm	60 - 400 mm	-30 ... 500°C	<=250°C: Class 1 / >250°C: Class 2
TB80	Bimetal thermometer, Installed length >= 100 mm	80	bottom center back	8 mm	100 - 1000 mm	-30 ... 500°C	<=250°C: Class 1 / >250°C: Class 2
TBA72	Pipe mounted thermometer	72	center back	n/a (pipe mounted thermometer)	n/a (pipe mounted thermometer)	-20 ... 120°C	± 1 %
TBH100	Bimetal thermometer for pipes up to 2"	100	center back	8 mm	48 - 88 mm	-20 ... 250°C	Class 1
TBH80	Bimetal thermometer for pipes up to 2"	80	center back	8 mm	48 - 88 mm	-20 ... 250°C	Class 1

TBHA100	Pipe mounted thermometer for isolated pipes up to 2"	100	center back	n/a (pipe mounted thermometer)	n/a (pipe mounted thermometer)	-20 ... 160°C	Class 1
TBHA80	Bimetal thermometer for pipes up to 2"	80	center back	n/a (pipe mounted thermometer)	n/a (pipe mounted thermometer)	-20 ... 160°C	Class 1
TBHI100	Bimetal thermometer Heavy-Duty, IP68	100	bottom center back Center back, every angle	6 mm 8 mm	100 - 1000 mm	-70 ... 600°C	Class 1
TBHI130	Bimetal thermometer Heavy-Duty, IP68	130	bottom center back Center back, every angle	6 mm 8 mm	100 - 1000 mm	-70 ... 600°C	Class 1
TBI100	Bimetal thermometer for process applications	100	bottom center back Center back, every angle	6 mm 8 mm	100 - 1000 mm	-70 ... 600°C	<=250°C: Class 1 / >250°C: Class 2
TBI130	Bimetal thermometer for process applications	130	bottom center back Center back, every angle	6 mm 8 mm	100 - 1000 mm	-70 ... 600°C	<=250°C: Class 1 / >250°C: Class 2
TBI160	Bimetal thermometer for process applications	160	bottom center back Center back, every angle	6 mm 8 mm	100 - 1000 mm	-70 ... 600°C	<=250°C: Class 1 / >250°C: Class 2
TBI80	Bimetal thermometer for process applications	80	bottom center back Center back, every angle	6 mm 8 mm	100 - 1000 mm	-70 ... 600°C	<=250°C: Class 1 / >250°C: Class 2
TBL100	Bimetal thermometer for airducts in ventilation systems	100	center back	8 mm	165 mm	-30 ... 80°C	-
TBW100	Bimetal thermometer with conical immersion tube, IP65	100	center back	konisch	62 mm	-20 ... 250°C	Class 1
TBX100	Bimetal thermometer with conical immersion tube,	100	bottom center back	konisch	62 mm	-20 ... 250°C	Class 1

	IP50						
TBX160	Bimetal thermometer with conical immersion tube, IP50	160	center back	konisch	62 mm	-20 ... 250°C	Class 1
TBX80	Bimetal thermometer with conical immersion tube, IP50	80	bottom center back	konisch	62 mm	-20 ... 250°C	Class 1
TSF160	Remote measurement gas filled thermometers	160	bottom center back	6 mm 8 mm 11 mm 14 mm	100 - 1000 mm	-200 ... 800°C	Class 1
TSF250	Remote measurement gas filled thermometers	250	bottom center back	6 mm 8 mm 11 mm 14 mm	100 - 1000 mm	-200 ... 800°C	Class 1
TSF63	Remote measurement gas filled thermometers	63	bottom	6 mm 8 mm 11 mm 14 mm	100 - 1000 mm	-200 ... 800°C	Class 1
TSF80	Remote measurement gas filled thermometers	80	bottom center back	6 mm 8 mm 11 mm 14 mm	100 - 1000 mm	-200 ... 800°C	Class 1
TSFE100	Remote measurement gas filled thermometers with contacts	100	bottom center back	6 mm 8 mm 11 mm 14 mm	100 - 1000 mm	-200 ... 800°C	Class 1
TSFE160	Remote measurement gas filled thermometers with contacts	160	bottom center back	6 mm 8 mm 11 mm 14 mm	100 - 1000 mm	-200 ... 800°C	Class 1
TSS100	Direct reading gas filled thermometers	100	bottom center back	6 mm 8 mm 11 mm 14 mm	100 - 1000 mm	-200 ... 800°C	Class 1
TSS160	Direct reading gas filled thermometers	160	bottom center back	6 mm 8 mm 11 mm	100 - 1000 mm	-200 ... 800°C	Class 1

				14 mm			
TSS250	Direct reading gas filled thermometers	250	bottom center back	6 mm 8 mm 11 mm 14 mm	100 - 1000 mm	-200 ... 800°C	Class 1
TSS63	Direct reading gas filled thermometers	63	bottom center back	6 mm 8 mm 11 mm 14 mm	100 - 1000 mm	-200 ... 800°C	Class 1
TSS80	Direct reading gas filled thermometers	80	bottom center back	6 mm 8 mm 11 mm 14 mm	100 - 1000 mm	-200 ... 800°C	Class 1
TSSE100	Direct reading gas filled thermometers with contacts	100	bottom center back	6 mm 8 mm 11 mm 14 mm	100 - 1000 mm	-200 ... 800°C	Class 1
TSSE160	Direct reading gas filled thermometers with contacts	160	bottom center back	6 mm 8 mm 11 mm 14 mm	100 - 1000 mm	-200 ... 800°C	Class

ДАТЧИКИ ДАВЛЕНИЯ



PRODUKT	MEDIUM/ANWENDUNG	MATERIAL PROZESSANSCHLUSS	DRUCKBEREICH	GENAUIGKEIT	MAXIMALE MEDIENTEMPÉRATUR	AUSGANGSSIGNAL	DISPLAY	ZULASSUNG
(Y)TED	Chemieindustrie Energieversorgung Pumpen und Kompressoren Wasser <input type="checkbox"/> Industrie Gase	Edelstahl 1.4404 (316L) Keramik (96 % Al ₂ O ₃)	Negativ 0...40 bars 40...400 bars	0.5% FS	< 80 °C < 100 °C	0...10 V Modbus Zwei galvanisch getrennte Schaltausgänge (PNP) Zwei Schaltausgänge (PNP) 4...20 mA	Drehbar Standard	ATEX
(Y)TED hygienic	Getränkeindustrie Nahrungsmittelindustrie	Edelstahl 1.4404 (316L)	Negativ 0...25 bars	0.5% FS	< 80 °C < 100 °C	0...10 V Modbus Zwei galvanisch getrennte Schaltausgänge (PNP) Zwei Schaltausgänge (PNP) 4...20 mA	Drehbar Standard	ATEX 3-A
CombiPres s PFMH	Getränkeindustrie Nahrungsmittelindustrie Pharmaindustrie	Edelstahl 1.4404 (316L) Hastelloy	Negativ 0...40 bars 40...400 bars	0.1% FS 0.25% FS	< 80 °C < 100 °C < 125 °C < 200 °C	HART Zwei galvanisch getrennte Schaltausgänge (PNP)	Drehbar Ohne Standard	ATEX EHEDG 3-A

	e					4...20 mA		
CombiPres s PFMN	Chemieindustrie Getränkeindustrie Nahrungsmittelindustrie Wasser	Edelstahl 1.4404 (316L) Hastelloy	Negativ 0...40 bars 40...400 bars	0.1% FS 0.25% FS	< 80 °C < 100 °C < 125 °C < 200 °C	HART Zwei galvanisch getrennte Schaltausgänge (PNP) 4...20 mA	Drehbar Ohne Standard	ATEX EHEDG
CPX	Pneumatik Wasser	Edelstahl 1.4404 (316L) Keramik (96 % Al2O3)	Negativ 0...40 bars 40...400 bars	0.5 % FS (BFSL)	< 80 °C < 100 °C	Zwei Schaltausgänge (PNP)	Ohne	-
CTX / CTL	Energieversorgung Fabrikautomatisierung HLK Landwirtschaftliche Fahrzeuge Pneumatik	Edelstahl 1.4404 (316L) Keramik (96 % Al2O3) Messing	Negativ 0...40 bars 40...400 bars	0.5 % FS (BFSL)	< 80 °C < 100 °C	0...10 V 0.5...4.5 V ratiometrisch 1 ... 5 V 4...20 mA	Ohne	-
EF6	Nutzfahrzeuge Schienenfahrzeuge	Edelstahl 1.4404 (316L) Keramik (96 % Al2O3)	Negativ 0...40 bars 40...400 bars	0.5% FS	< 80 °C < 100 °C	0...10 V 4...20 mA	Ohne	Eisenbahn
PBM4	Fabrikautomatisierung Hydraulik	Edelstahl 1.4301 (304) Edelstahl 1.4548 (630)	40...400 bars 400...1000 bars	0.5% FS	< 80 °C < 100 °C < 125 °C < 150 °C	0 ... 5 V 0...10 V 0.5...4.5 V ratiometrisch 1 ... 6 V 4...20 mA	Ohne	-
PBMH Hygienic	Getränkeindustrie Nahrungsmittelindustrie Pharmaindustrie	Edelstahl 1.4404 (316L) Edelstahl 1.4435 (316L) Hastelloy	Negativ 0...40 bars	0.1% FS 0.25% FS	< 80 °C < 100 °C < 125 °C < 200 °C	0 ... 5 V 0...10 V 0.5 ... 4.5 V 1 ... 5 V 4...20 mA	Ohne	ATEX EHEDG 3-A
PBMN Flush	Chemieindustrie Getränkeindustrie Nahrungsmittelindustrie Wasser	Edelstahl 1.4404 (316L) Hastelloy	Negativ 0...40 bars 40...400 bars	0.1% FS 0.25% FS 0.5% FS	< 80 °C < 100 °C < 125 °C < 200 °C	0 ... 5 V 0...10 V 0.5 ... 4.5 V 1 ... 5 V 4...20 mA	Ohne	ATEX
PBMN industrial High	Hydraulik □ Industrie Gase	Edelstahl 1.4301 (304) Edelstahl	40...400 bars 400...1600	0.1% FS 0.25% FS 0.5% FS	< 80 °C < 100 °C < 125 °C	0 ... 5 V 0...10 V 0.5 ... 4.5 V 1 ... 5 V	Ohne	ATEX

Pressure		1.4542 (630)	bars			4...20 mA		
PBMN industrial Low Pressure	Chemieindustri e Pneumatik Wasser	Edelstahl 1.4404 (316L)	Negativ 0...40 bars 40...400 bars	0.1% FS 0.25% FS 0.5% FS	< 80 °C < 100 °C < 125 °C	0 ... 5 V 0...10 V 0.5 ... 4.5 V 1 ... 5 V 4...20 mA	Ohne	ATEX UL/CSA
PBSN	Chemieindustri e Fabrikautomati sierung Pneumatik Wasser <input type="checkbox"/> Industrie Gase	Edelstahl 1.4404 (316L) Keramik (96 % Al2O3)	Negativ 0...40 bars 40...600 bars	0.5% FS 0.7% FS	< 80 °C < 100 °C < 125 °C	0 ... 5 V 0...10 V 0.5 ... 4.5 V 1 ... 5 V 4...20 mA	Ohne	-
PDRx	Fabrikautomati sierung Hydraulik	Edelstahl 1.4301 (304) Edelstahl 1.4542 (630)	40...400 bars 400...1600 bars	0.3% FS 0.5% FS	< 80 °C	0...10 V 4...20 mA	Ohne	-
X91	Explosionsgefä hrdete Umgebung	Edelstahl 1.4404 (316L) Keramik (96 % Al2O3)	Negativ 0...40 bars 40...400 bars	0.3 % FS (BFSL)	< 80 °C < 100 °C	0...10 V 4...20 mA	Ohne	ATEX
Y91	Chemieindustri e Energieversorg ung Pneumatik Schiffbau Wasser <input type="checkbox"/> Industrie Gase	Edelstahl 1.4404 (316L) Keramik (96 % Al2O3)	Negativ 0...40 bars 40...600 bars	0.3 % FS (BFSL)	< 80 °C < 100 °C	0...10 V 4...20 mA	Ohne	ATEX Marine

PRODUKT	DURCHMESSER	GEHÄUSE MATERIAL	FEHLERGR ENZE	SICHERHEITS KLASSE	VERFÜGBAR MIT ÖLFÜLLUNG	SCHUTZART	ZULASSUNG
DPC100	100 mm	Edelstahl	Klasse 1.6	-	Ja	IP65	ATEX
MAN	150 mm	Edelstahl	Klasse 0.5 Klasse 0.6 Klasse 1.0	S3	-	IP52	ATEX
MAT1	40 mm	Stahlblech, schwarz	Klasse 2.5	-	-	-	-
MAT2	50 mm	Stahlblech,	Klasse 2.5	-	-	-	-

		schwarz					
MAT3	63 mm	Stahlblech, schwarz	Klasse 2.5	-	-	-	-
MAT5	100 mm	Stahlblech, schwarz	Klasse 1.6	-	-	-	-
MCD7	150 mm	Edelstahl	Klasse 1.6	-	-	IP65	ATEX
MCX5	100 mm	Edelstahl	Klasse 1.6	S1	-	IP65	ATEX
MCX7	150 mm	Edelstahl	Klasse 1.6	S1	-	IP65	ATEX
MEM3	63 mm	Edelstahl	Klasse 1.0 Klasse 1.6	S1	Ja	IP65	ATEX
MEM5	100 mm	Edelstahl	Klasse 0.5 Klasse 0.6 Klasse 1.0	S1	Ja	IP65	ATEX
MEP5	100 mm	Edelstahl	Klasse 0.5 Klasse 0.6 Klasse 1.0	S3	Ja	IP67	ATEX
MEX2	50 mm	Edelstahl	Klasse 1.0 Klasse 1.6	S1	Ja	IP65	ATEX
MEX3	63 mm	Edelstahl	Klasse 1.0 Klasse 1.6	S1	Ja	IP65	ATEX
MEX5	100 mm	Edelstahl	Klasse 1.0 Klasse 1.6	S1	Ja	IP65	ATEX
MEX8	160 mm	Edelstahl	Klasse 0.5 Klasse 0.6 Klasse 1.0	-	Ja	IP65	ATEX
MIM7	150 mm	Edelstahl	Klasse 0.5 Klasse 0.6 Klasse 1.0	S1	Ja	IP65	ATEX
MIT3	63 mm	Edelstahl	Klasse 2.5	-	Ja	-	-
MIT5	100 mm	Edelstahl	Klasse 2.5	-	Ja	-	-
MIX7	150 mm	Edelstahl	Klasse 0.5 Klasse 0.6 Klasse 1.0	S1	Ja	IP65	ATEX
MJX	150 mm	Edelstahl	Klasse 0.5 Klasse 0.6	S1	-	IP65	ATEX



			Klasse 1.0				
MMJ	150 mm	Edelstahl	Klasse 0.5 Klasse 0.6 Klasse 1.0	S1	-	IP65	ATEX
MMN5	100 mm	Edelstahl	Klasse 0.5 Klasse 0.6 Klasse 1.0	S3	Ja	IP67	ATEX
MMX1	40 mm	Edelstahl	Klasse 2.5	-	-	-	-
MPE	130 mm	Phenolharz	Klasse 0.5 Klasse 0.6 Klasse 1.0	S3	Ja	IP65	ATEX
MPF	130 mm	Phenolharz	Klasse 0.5 Klasse 0.6 Klasse 1.0	S3	Ja	IP65	ATEX
MPG	130 mm	Phenolharz	Klasse 0.5 Klasse 0.6 Klasse 1.0	S3	Ja	IP67	ATEX
MPJ	130 mm	Phenolharz	Klasse 0.5 Klasse 0.6 Klasse 1.0	S3	Ja	IP65	ATEX
MTA2	50 mm	Edelstahl	Klasse 1.6	-	-	-	-
MTA3	63 mm	Edelstahl	Klasse 1.6	-	-	-	-
MTA5	100 mm	Edelstahl	Klasse 1.6 Klasse 2.5	-	-	-	-



ДАТЧИКИ ПРОВОДИМОСТИ, ТЕНЗОДАТЧИКИ







sample picture	<u>product family</u>	<u>product description</u>
	DLRP L001 Compression Load cells	<ul style="list-style-type: none"> • Characteristic curve deviation 0,5% • Nominal force 5...10 kN • Output signal 1mV/V • Protection class IP 67 • Load transmission compression
	DLRP L002 Compression Load cells	<ul style="list-style-type: none"> • Characteristic curve deviation 0,3% • Nominal force 0,5...10 kN • Output signal 2 mV/V • Protection class IP 67 • Load transmission compression
	DLRP L002 Tension/Compression Load cells	<ul style="list-style-type: none"> • Characteristic curve deviation 0,3% • Nominal force 0,5...10 kN • Output signal 2 mV/V • Protection class IP 67 • Load transmission tension / compression

	<p>DLRP L003 Tension/Compression</p> <p>Load cells</p>	<ul style="list-style-type: none"> • Characteristic curve deviation 0,3% • Nominal force 10...100 kN • Output signal 2 mV/V • Protection class IP 67 • Load transmission tension / compression
	<p>DLRx L001 Compression</p> <p>Load cells</p>	<ul style="list-style-type: none"> • Characteristic curve deviation 0,5% • Nominal force 5...10 kN • Output signal 0 ... 10 V / 4 ... 20 mA • Protection class IP 65 • Load transmission compression
	<p>DLRx L002 Compression</p> <p>Load cells</p>	<ul style="list-style-type: none"> • Characteristic curve deviation 0,3% • Nominal force 0,5...10 kN • Output signal 0 ... 10 V / 4 ... 20 mA • Protection class IP 65 • Load transmission compression
	<p>DLRx L002 Tension/Compression</p> <p>Load cells</p>	<ul style="list-style-type: none"> • Characteristic curve deviation 0,3% • Nominal force 0,5...10 kN • Output signal ± 10 V / 4 ... 20 mA • Protection class IP 65 • Load transmission tension / compression
	<p>DLRx L003 Tension/Compression</p> <p>Load cells</p>	<ul style="list-style-type: none"> • Characteristic curve deviation 0,3% • Nominal force 10...100 kN • Output signal ± 10 V / 4 ... 20 mA • Protection class IP 65 • Load transmission tension / compression



sample picture	product family	product description
	<p>DSRC ST</p> <p>Strain Rings</p>	<ul style="list-style-type: none"> • Strain ring with radial cable connector for tension, compression or torsion measurement • Installation without surface preparation • Strain measurement on shafts, axes and cylinders • For cyclical applications
	<p>DSRC BT</p> <p>Strain Rings</p>	<ul style="list-style-type: none"> • Strain ring with radial cable exit for tension and compression measurement • Installation without surface preparation • Ideal for permanent installation • For cyclical applications


sample picture	product family	product description
	DSRK I Strain Probes	<ul style="list-style-type: none"> • Strain measurement in deep holes • Very robust design • Increased lifetime with glued strain gauges • Maintenance free • Integrated amplifier with current output
	DSRK U Strain Probes	<ul style="list-style-type: none"> • Strain measurement in deep holes • Very robust design • Increased lifetime with glued strain gauges • Maintenance free • Integrated amplifier with voltage output


sample picture	product family	product description
	DSRT 22DD Strain Links	<ul style="list-style-type: none"> • For cyclical and static measurements, with integrated amplifier • Voltage output ± 10 VDC • Excellent signal to noise ratio • High sensitivity
	DSRT 22DJ Strain Links	<ul style="list-style-type: none"> • For cyclical and static measurements, with integrated amplifier • CANopen • Excellent signal to noise ratio • High sensitivity
	DSRT 22DA Strain Links	<ul style="list-style-type: none"> • For cyclical and static measurements, without amplifier • Output signal mV/V • S/G full bridge • High repeatability • High sensitivity



sample picture	product family	product description
	DABU AD2T-FB Bridge Amplifiers	<ul style="list-style-type: none"> • Bridge amplifier for S/G full bridge • Voltage output • Protection class IP 65

	DABI AD2T-FB Bridge Amplifiers	<ul style="list-style-type: none"> • Bridge amplifier for S/G full bridge • Current output • Protection class IP 65
	DABU AD2T-2Q Bridge Amplifiers	<ul style="list-style-type: none"> • Bridge amplifier for 2 x 1/4 S/G bridge • Voltage output • Protection class IP 65
	DABI AD2T-2Q Bridge Amplifiers	<ul style="list-style-type: none"> • Bridge amplifier for 2 x 1/4 S/G bridge • Current output • Protection class IP 65
	DABx MP4M Bridge Amplifiers	<ul style="list-style-type: none"> • Bridge amplifier, selectable configuration (2 x 1/4 S/G bridge and full bridge) • Voltage or current output • Peak value and two limit switches • Enclosure for DIN rail installation

sample picture	product family	product description
	DDBF 2-SC Displaybox	<ul style="list-style-type: none"> • Display box for strain rings, 2-channel • Contemporaneous measurement and display of 2 channels • 2 analogue outputs • Including analysis software InspectMaster
	DDBF 4-SC Displaybox	<ul style="list-style-type: none"> • Display box for strain rings, 4-channel • Contemporaneous measurement and display of 4 channels • 2 analogue outputs • Including analysis software InspectMaster

sample picture	product family	product description
	DLPP 8MO Piezo Electric Force Sensors	<ul style="list-style-type: none"> • Quartz miniature force sensor 250 N • Capacity 0...+250 N • Cable with or without connector • Sensor diameter 3,5 mm

	DLPP 6MO Piezo Electric Force Sensors	<ul style="list-style-type: none"> • Quartz miniature force sensor • Capacity 0...+2,5 kN • Connector thread M4 x 0,35 • Sensor diameter 6 mm
	DLPP 7MO Piezo Electric Force Sensors	<ul style="list-style-type: none"> • Quartz force sensor • Capacity 0...+10 kN • Connector thread M4 x 0,35 • Sensor diameter 12,6 mm
	DLPP 4MO Piezo Electric Force Sensors	<ul style="list-style-type: none"> • Quartz force sensor • Capacity 0...+30 kN • Connector thread UNF 10 - 32 • Sensor diameter 25 mm

sample picture	product family	product description
	DACU 800 Charge Amplifier	<ul style="list-style-type: none"> • Charge amplifier for piezo electric sensors • 14 selectable ranges • 2 limit switches with switching output • Peak value • Voltage output • RS 232 interface
	DACU 820 Charge Amplifier	<ul style="list-style-type: none"> • Charge amplifier for piezo electric strain sensors (DSPN) • 2 analogue outputs • 4 selectable ranges per channel • 2 limit switches with switching output • Peak value • Voltage output • RS 232 interface

sample picture	product family	product description
	DPPC DS02.5 Cavity Pressure Sensors	<ul style="list-style-type: none"> • Cavity pressure sensor for direct measurement • Capacity 0...2000 bar • Connector thread M4 x 0,35 • Sensor diameter 2,5 mm






DPPC DS04.0

Cavity Pressure Sensors

- Cavity pressure sensor for direct measurement
- Capacity 0...2000 bar
- Connector thread M4 x 0,35
- Sensor diameter 4 mm

СЧЕТЧИКИ



Sample picture	Product family	Voltage supply	Housing	Features
	B 148	18...26 VAC / 50 Hz 110...120 VAC / 50 Hz 220...240 VAC / 50 Hz 350...400 VAC / 50 Hz 110...127 VAC / 60 Hz 220...240 VAC / 60 Hz	Built-in housing Surface mount housing Surface mount DIN rail housing EN 50022	• DIN dimensions
	B 160	10...80 VDC	Built-in housing Surface mount DIN rail housing EN 50022	• DIN dimensions
	F 102	24/110 VAC ±10 % (50/60 Hz) 230 VAC +6/-10 % (50/60 Hz) 24 VDC ±10 %	Built-in housing	• Mini series 32 x 21.5 mm • Screw mount

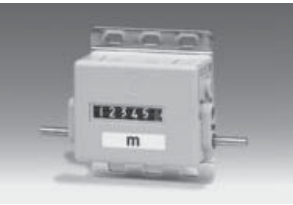







	F 112	24/110 VAC $\pm 10\%$ (50/60 Hz) 230 VAC $+6/-10\%$ (50/60 Hz) 24 VDC $\pm 10\%$	Built-in housing	<ul style="list-style-type: none"> • Mini series 32 x 21.5 mm • Screw mount
	F 122	24/110 VAC $\pm 10\%$ (50/60 Hz) 230 VAC $+6/-10\%$ (50/60 Hz) 24 VDC $\pm 10\%$	Built-in housing	<ul style="list-style-type: none"> • Mini series 32 x 21.5 mm • Spring clip
	F 304	24/110 VAC $\pm 10\%$ (50/60 Hz) 230 VAC $+6/-10\%$ (50/60 Hz) 24 VDC $\pm 10\%$	Socket box	<ul style="list-style-type: none"> • Module 50 x 25 mm • Socket box
	F 314	24/110 VAC $\pm 10\%$ (50/60 Hz) 230 VAC $+6/-10\%$ (50/60 Hz) 24 VDC $\pm 10\%$	Built-in housing	<ul style="list-style-type: none"> • Module 50 x 25 mm • Screw mount
	F 324	24/110 VAC $\pm 10\%$ (50/60 Hz) 230 VAC $+6/-10\%$ (50/60 Hz) 24 VDC $\pm 10\%$	Built-in housing	<ul style="list-style-type: none"> • Module 50 x 25 mm • Spring clip
	F 364	24/110 VAC $\pm 10\%$ (50/60 Hz) 230 VAC $+6/-10\%$ (50/60 Hz) 24 VDC $\pm 10\%$	Built-in housing	<ul style="list-style-type: none"> • Module 50 x 25 mm • Screw mount
	F 503	24/110 VAC $\pm 10\%$ (50/60 Hz) 230 VAC $+6/-10\%$ (50/60 Hz) 12/24 VDC $\pm 10\%$	Built-in housing	<ul style="list-style-type: none"> • Mini series 36 x 24 mm • Screw mount
	F 504	24/110 VAC $\pm 10\%$ (50/60 Hz) 230 VAC $+6/-10\%$ (50/60 Hz) 24 VDC $\pm 10\%$	Socket box	<ul style="list-style-type: none"> • Module 50 x 25 mm • Socket box

	F 513	24/110 VAC $\pm 10\%$ (50/60 Hz) 230 VAC $+6/-10\%$ (50/60 Hz) 12/24 VDC $\pm 10\%$	Built-in housing	<ul style="list-style-type: none"> • Mini series 36 x 24 mm • Screw mount
	F 514	24/110 VAC $\pm 10\%$ (50/60 Hz) 230 VAC $+6/-10\%$ (50/60 Hz) 24 VDC $\pm 10\%$	Built-in housing	<ul style="list-style-type: none"> • Module 50 x 25 mm • Screw mount
	F 523	24/110 VAC $\pm 10\%$ (50/60 Hz) 230 VAC $+6/-10\%$ (50/60 Hz) 12/24 VDC $\pm 10\%$	Built-in housing	<ul style="list-style-type: none"> • Mini series 36 x 24 mm • Spring clip
	F 524	24/110 VAC $\pm 10\%$ (50/60 Hz) 230 VAC $+6/-10\%$ (50/60 Hz) 24 VDC $\pm 10\%$	Built-in housing	<ul style="list-style-type: none"> • Module 50 x 25 mm • Spring clip
	FE304	24/110 VAC $\pm 10\%$ (50/60 Hz) 230 VAC $+6/-10\%$ (50/60 Hz) 24 VDC $\pm 10\%$	Socket box	<ul style="list-style-type: none"> • Module 50 x 50 mm • Socket box
	FE314	24/110 VAC $\pm 10\%$ (50/60 Hz) 230 VAC $+6/-10\%$ (50/60 Hz) 24 VDC $\pm 10\%$	Built-in housing	<ul style="list-style-type: none"> • Module 50 x 50 mm • Screw mount
	FE324	24/110 VAC $\pm 10\%$ (50/60 Hz) 230 VAC $+6/-10\%$ (50/60 Hz) 24 VDC $\pm 10\%$	Built-in housing	<ul style="list-style-type: none"> • Module 50 x 50 mm • Spring clip
	FE504	24/110 VAC $\pm 10\%$ (50/60 Hz) 230 VAC $+6/-10\%$ (50/60 Hz) 24 VDC $\pm 10\%$	Socket box	<ul style="list-style-type: none"> • Module 50 x 50 mm • Socket box






	FE514	24/110 VAC $\pm 10\%$ (50/60 Hz) 230 VAC $+6/-10\%$ (50/60 Hz) 24 VDC $\pm 10\%$	Built-in housing	<ul style="list-style-type: none"> • Module 50 x 50 mm • Screw mount
	FE524	24/110 VAC $\pm 10\%$ (50/60 Hz) 230 VAC $+6/-10\%$ (50/60 Hz) 24 VDC $\pm 10\%$	Built-in housing	<ul style="list-style-type: none"> • Module 50 x 50 mm • Spring clip
	FS218	24/110 VAC $\pm 10\%$ (50/60 Hz) 230 VAC $+6/-10\%$ (50/60 Hz) 24 VDC $\pm 10\%$	Built-in housing	<ul style="list-style-type: none"> • Large design series • Front 144 x 72 mm • Subtracting
	FS219	24/110 VAC $\pm 10\%$ (50/60 Hz) 230 VAC $+6/-10\%$ (50/60 Hz) 24 VDC $\pm 10\%$	Built-in housing	<ul style="list-style-type: none"> • Large design series • Front 144 x 72 mm • Subtracting • Electric reset
	FS304	24/110 VAC $\pm 10\%$ (50/60 Hz) 230 VAC $+6/-10\%$ (50/60 Hz) 24 VDC $\pm 10\%$	Socket box	<ul style="list-style-type: none"> • Module 50 x 50 mm • Socket box • Subtracting
	FS309	24/110 VAC $\pm 10\%$ (50/60 Hz) 230 VAC $+6/-10\%$ (50/60 Hz) 24 VDC $\pm 10\%$	Socket box	<ul style="list-style-type: none"> • Module 50 x 50 mm • Socket box • Subtracting • Permanent precontact • Electric reset
	FS314	24/110 VAC $\pm 10\%$ (50/60 Hz) 230 VAC $+6/-10\%$ (50/60 Hz) 24 VDC $\pm 10\%$	Built-in housing	<ul style="list-style-type: none"> • Module 50 x 50 mm • Screw mount • Subtracting
	FS319	24/110 VAC $\pm 10\%$ (50/60 Hz) 230 VAC $+6/-10\%$ (50/60 Hz) 24 VDC $\pm 10\%$	Built-in housing	<ul style="list-style-type: none"> • Module 50 x 50 mm • Screw mount • Subtracting • Permanent precontact









				<ul style="list-style-type: none"> • Electric reset
	FS324	<p>24/110 VAC $\pm 10\%$ (50/60 Hz) 230 VAC $+6/-10\%$ (50/60 Hz) 24 VDC $\pm 10\%$</p>	Built-in housing	<ul style="list-style-type: none"> • Module 50 x 50 mm • Spring clip • Subtracting
	FS329	<p>24/110 VAC $\pm 10\%$ (50/60 Hz) 230 VAC $+6/-10\%$ (50/60 Hz) 24 VDC $\pm 10\%$</p>	Built-in housing	<ul style="list-style-type: none"> • Module 50 x 50 mm • Spring clip • Subtracting • Permanent precontact • Electric reset
	H 126	-	Surface mount housing with mounting plate	<ul style="list-style-type: none"> • Stroke counter 5-digits • Adding • Base plate horizontal
	H 127	-	Surface mount housing with mounting plate	<ul style="list-style-type: none"> • Stroke counter 5-digits • Adding • Base plate vertical
	H 300	-	Surface mount housing with mounting plate	<ul style="list-style-type: none"> • Stroke counter 6-digits • Adding • Base plate vertical
	H 310	-	Surface mount housing with mounting plate	<ul style="list-style-type: none"> • Stroke counter 5-digits • Adding • Base plate horizontal
	H 400	-	Surface mount housing with mounting plate	<ul style="list-style-type: none"> • Stroke counter 7-digits • Adding • Base plate horizontal








	H 410	-	Surface mount housing with mounting plate	<ul style="list-style-type: none"> • Stroke counter 5-digits • Adding • Base plate horizontal
	ISI30	Lithium battery (approx. 8 years at 20 °C)	Built-in housing	<ul style="list-style-type: none"> • Impulse counter • Adding or subtracting
	ISI31	Lithium battery (approx. 8 years at 20 °C)	Built-in housing	<ul style="list-style-type: none"> • Difference counter • A-B or A with up/down
	ISI32	Lithium battery (approx. 8 years at 20 °C)	Built-in housing	<ul style="list-style-type: none"> • Up/down counter with • Direction signal
	ISI33	Lithium battery (approx. 8 years at 20 °C)	Built-in housing	<ul style="list-style-type: none"> • Up/down counter with • A90°B evaluation • Position display
	ISI34	Lithium battery (approx. 8 years at 20 °C)	Built-in housing	<ul style="list-style-type: none"> • LCD display 8-digits • Keylock
	ISI35	Lithium battery (approx. 8 years at 20 °C)	Built-in housing	<ul style="list-style-type: none"> • LCD display 8-digits • Keylock
	ISI36	Lithium battery (approx. 8 years at 20 °C)	Built-in housing	<ul style="list-style-type: none"> • Count frequency max. 12 kHz





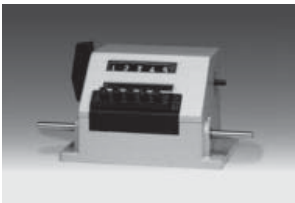
	M 300	-	Surface mount housing with mounting plate	<ul style="list-style-type: none"> • Meter counter 6-digits • adding • Base plate vertical
	M 310.A	-	Surface mount housing with mounting plate	<ul style="list-style-type: none"> • Meter counter 5-digits • PTB approved • Base plate horizontal
	M 310	-	Surface mount housing with mounting plate	<ul style="list-style-type: none"> • Meter counter 5-digits • adding • Base plate horizontal
	M 400	-	Surface mount housing with mounting plate	<ul style="list-style-type: none"> • Meter counter 7-digits • adding • Base plate horizontal
	M 410.A	-	Surface mount housing with mounting plate	<ul style="list-style-type: none"> • Meter counter 5-digits • PTB approved • Base plate horizontal
	M 410	-	Surface mount housing with mounting plate	<ul style="list-style-type: none"> • Meter counter 5-digits • adding • Base plate vertical
	M 411	-	Surface mount housing with mounting plate	<ul style="list-style-type: none"> • Drive shaft at bottom • Meter counter 5-digits • adding • Base plate vertical
	ME102	-	Surface mount housing	<ul style="list-style-type: none"> • Meter counter 4-digits • 1 preset • Subtracting • Option: precontact

	ME230	-	Surface mount housing	<ul style="list-style-type: none"> • Large meter counter • 1 preset • Subtracting • Option: precontact
	ME280 PTB	-	Surface mount housing	<ul style="list-style-type: none"> • Large meter counter • PTB approved • 1 preset • Adding
	ME280	-	Surface mount housing	<ul style="list-style-type: none"> • Large meter counter • 1 or 2 presets • Adding
	ME282 PTB	-	Surface mount housing	<ul style="list-style-type: none"> • Large meter counter • PTB approved • 1 or 2 presets • Adding
	N 208	12...24 VDC	Built-in housing	<ul style="list-style-type: none"> • Totalizer • Difference counter • Position display
	N 214	24/48 VAC $\pm 10\%$ (50/60 Hz) 115/230 VAC $\pm 10\%$ (50/60 Hz) 24 VDC $\pm 10\%$	Built-in housing	<ul style="list-style-type: none"> • LED display 14 mm • Position display • Programmable • Serial interfaces
	NA214	85...265 VAC (50/60 Hz) 24 VDC $\pm 10\%$	Built-in housing	<ul style="list-style-type: none"> • SSI display • 3 relay outputs • Serial interfaces
	NE210	24/48 VAC $\pm 10\%$ (50/60 Hz) 85...265 VAC (50/60 Hz) 24 VDC $\pm 10\%$	Built-in housing	<ul style="list-style-type: none"> • Preset counter • programmable as • Time meter • Time relay

	NE212	24/48 VAC $\pm 10\%$ (50/60 Hz) 85...265 VAC (50/60 Hz) 24 VDC $\pm 10\%$	Built-in housing	<ul style="list-style-type: none"> • Multifunctional • Totalizer 8-digits • Integrated batch counter • Serial interfaces
	NE214	24/48 VAC $\pm 10\%$ (50/60 Hz) 115/230 VAC $\pm 10\%$ (50/60 Hz) 24 VDC $\pm 10\%$	Built-in housing	<ul style="list-style-type: none"> • LED display 14 mm • Totalizer 6-digits • Integrated batch counter • Serial interfaces
	NE215	115 VAC $\pm 10\%$ (50/60 Hz) 230 VAC $\pm 10\%$ (50/60 Hz) 24 VDC $\pm 10\%$	Built-in housing	<ul style="list-style-type: none"> • Meter counter with • PTB approved • Display in mm or cm • Integrated batch counter • Serial interfaces
	NE216	24/48 VAC $\pm 10\%$ (50/60 Hz) 85...265 VAC (50/60 Hz) 12...30 VDC	Built-in housing	<ul style="list-style-type: none"> • 2 presets • Step presets • Trailing preset • Totalizer or time meter • Interface RS485
	NE218	24/48 VAC $\pm 10\%$ (50/60 Hz) 115/230 VAC $\pm 10\%$ (50/60 Hz) 24 VDC $\pm 10\%$	Built-in housing	<ul style="list-style-type: none"> • LED display 14 mm • Totalizer 6-digits • Integrated auxiliary counter • Serial interfaces
	NE230	14...28 VAC (50/60 Hz) 85...265 VAC (50/60 Hz) 10...30 VDC	Surface mount housing	<ul style="list-style-type: none"> • Housing for DIN rail • Totalizer 6-digits • Integrated auxiliary counter • Serial interfaces
	PCD41	24/48 VAC $\pm 10\%$ (50/60 Hz) 115/230 VAC $\pm 10\%$ (50/60 Hz) 12...30 VDC	Built-in housing	<ul style="list-style-type: none"> • Offset for measured values • 2 limits with relay • Serial interfaces

	T 120	-	Housing with retaining ring	<ul style="list-style-type: none"> • Hand-held piece counter • With retaining ring • Housing of metal
	T 123	-	Housing with ground plate (table mount)	<ul style="list-style-type: none"> • Hand-held piece counter • With base mounting plate • Housing of metal
	T 124	-	Housing with mounting plate (wall mount)	<ul style="list-style-type: none"> • Hand-held piece counter • With wall mounting plate • Housing of metal
	T 127	-	Surface mount housing with mounting plate	<ul style="list-style-type: none"> • Piece counter 4-digits • With lever
	T 130	-	Housing with retaining ring	<ul style="list-style-type: none"> • Hand-held piece counter • With retaining ring • Housing of plastic
	T 134	-	Plug-on housing for table and wall mount	<ul style="list-style-type: none"> • Hand-held piece counter • With base/wall mounting plate • Housing of plastic
	TA200	24/48 VAC $\pm 10\%$ (50/60 Hz) 115/230 VAC $\pm 10\%$ (50/60 Hz) 24 VDC $\pm 10\%$	Built-in housing	<ul style="list-style-type: none"> • Count frequency max. 40 kHz • Measuring units 1/h, 1/min, 1/s • Scaling factor
	TA201	24/48 VAC $\pm 10\%$ (50/60 Hz) 115/230 VAC $\pm 10\%$ (50/60 Hz) 24 VDC $\pm 10\%$	Built-in housing	<ul style="list-style-type: none"> • Count frequency max. 40 kHz • Ratio display

	TA202	24/48 VAC $\pm 10\%$ (50/60 Hz) 115/230 VAC $\pm 10\%$ (50/60 Hz) 24 VDC $\pm 10\%$	Built-in housing	<ul style="list-style-type: none"> • 2 limits • Count frequency max. 40 kHz • Ratio display • Serial interfaces • Analog output
	U 126	-	Surface mount housing with mounting plate	<ul style="list-style-type: none"> • Revolution counter • adding, 5-digits • Base plate horizontal
	U 127	-	Surface mount housing with mounting plate	<ul style="list-style-type: none"> • Revolution counter • adding, 5-digits • Base plate vertical
	U 300	-	Surface mount housing with mounting plate	<ul style="list-style-type: none"> • Revolution counter • adding, 5-digits • Base plate vertical
	U 310	-	Surface mount housing with mounting plate	<ul style="list-style-type: none"> • Revolution counter • adding, 5-digits • Base plate horizontal
	U 400	-	Surface mount housing with mounting plate	<ul style="list-style-type: none"> • Revolution counter • adding, 7-digits • Base plate horizontal
	U 401	-	Surface mount housing with mounting plate	<ul style="list-style-type: none"> • Drive shaft at bottom • Revolution counter • adding, 5-digits • Base plate horizontal

	U 410	-	Surface mount housing with mounting plate	<ul style="list-style-type: none"> • Revolution counter • adding, 5-digits • Base plate horizontal
	U 411	-	Surface mount housing with mounting plate	<ul style="list-style-type: none"> • Drive shaft at bottom • Revolution counter • adding, 5-digits • Base plate horizontal
	UE102	-	Surface mount housing	<ul style="list-style-type: none"> • Revolution counter • 1 preset, 4 digits • subtracting • Option: precontact
	UE230	-	Surface mount housing	<ul style="list-style-type: none"> • Revolution counter • 1 preset • subtracting • Option: precontact
	UE280	-	Surface mount housing	<ul style="list-style-type: none"> • Large meter counter • 1 or 2 presets • adding

СРЕДСТВА ВИЗУАЛИЗАЦИИ



PRODUCT	TYPE	MEDIUM	ELECTRIC CONNECTION	TEMPERATURE RANGE	INPUT	ACCURACY	OUTPUT SIGNAL	DISPLAY	APPROVALS	MOUNTING
CombiTemp TFR5	Room temperature sensor	Air	Ø80 mm, FlexHousing	-40 ... 85 °C	Pt100	Class A Class B ±0,1 °C ±0,25 °C 1/3 Class B 1/6 Class B	HART Pt100 4 ... 20 mA	Graphical colour display LCD Without	ATEX	-
CombiTemp TFRH	Sensor Transmitter	Hygienic	Ø80 mm, FlexHousing	-50 ... 200 °C -50 ... 205 °C -50 ... 250 °C	Pt100	Class A Class B ±0,1 °C ±0,25 °C 1/3 Class B 1/6 Class B	HART Pt100 4 ... 20 mA	Graphical colour display LCD Without	ATEX EHEDG 3-A	-
CombiTemp TFRN	Sensor Transmitter	Standard	Ø80 mm, FlexHousing	-50 ... 200 °C -50 ... 205 °C -50 ... 250 °C -50 ... 400 °C	Pt100	Class A Class B ±0,1 °C ±0,25 °C 1/3 Class B 1/6 Class B	HART Pt100 4 ... 20 mA	Graphical colour display LCD Without	ATEX	-

PRODUCT	MEDIUM	MATERIAL PROCESS CONNECTION	PRESSURE RANGE	ACCURACY	MAX MEDIUM TEMPERATURE	OUTPUT SIGNAL	DISPLAY	APPROVALS
CombiPress PFMH	Beverage	Hastelloy	Negative	0.1% FS	< 80 °C	HART	Rotatable	ATEX
	Food	Stainless Steel	0 ... 40 bar	0.25% FS	< 100 °C	Two	Standard	EHEDG
	Pharmaceutical	1.4404 (316L)	40 ... 400 bar		< 125 °C < 200 °C	galvanically isolated switching outputs (PNP) 4 ... 20 mA	Without	3-A
CombiPress PFMN	Beverage	Hastelloy	Negative	0.1% FS	< 80 °C	HART	Rotatable	ATEX
	Chemicals	Stainless Steel	0 ... 40 bar	0.25% FS	< 100 °C	Two	Standard	EHEDG
	Food Water	1.4404 (316L)	40 ... 400 bar		< 125 °C < 200 °C	galvanically isolated switching outputs (PNP) 4 ... 20 mA	Without	

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Астана (7172)727-132
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Брянск (4832)59-03-52
Владивосток (423)249-28-31
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