Product data sheet Characteristics

XS8C2A1PCM12

inductive sensor XS8 40x40x70 - PBT - Sn20 mm - 12..48VDC - M12





Main

Range of product	OsiSense XS	
Series name	General purpose	
Sensor type	Inductive proximity sensor	
Device application	Mobile equipment	
Sensor name	XS8	
Sensor design	Form 40 x 40 x 70	
Size	70 mm	
Body type	Fixed	
Detector flush mounting acceptance	Flush mountable	
Material	Plastic	
Enclosure material	PBT	
Type of output signal	Discrete	
Wiring technique	3-wire	
[Sn] nominal sensing distance	20 mm	
Discrete output function	1 NO + 1 NC	
Output circuit type	DC	
Discrete output type	PNP	
Electrical connection	Male connector M12, 4 pins	
[Us] rated supply voltage	1248 V DC with reverse polarity protection	
Switching capacity in mA	<= 200 mA with overload and short-circuit protection	
IP degree of protection	IP67 conforming to IEC 60529	
	IP65 conforming to IEC 60529 IP69K conforming to DIN 40050	

Complementary

Complementary		<u> </u>
Safety level	SIL 2 conforming to EN/IEC 61508	iš
	PL = d conforming to EN/ISO 13849-1 SILCL 2 conforming to IEC 62061	<u> </u>
Safety reliability data	MTTFd = 1546 years	<u></u>

PFHd = 7.4E-8 1/h SFF = 92 % DC = 75 % with appropriate safety controller

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Detection face	5 positions turret head
Front material	PBT
Operating zone	016 mm
Differential travel	315% of Sr
Repeat accuracy	<= 3% of Sr
Status LED	Supply on: 1 LED (green) Output state: 1 LED (yellow)
Supply voltage limits	1058 V DC
Switching frequency	<= 300 Hz
Maximum voltage drop	<2 V (closed)
Current consumption	015 mA no-load
Maximum delay first up	7.5 ms
Maximum delay response	1.2 ms
Maximum delay recovery	1.8 ms
Marking	CE
Height	40 mm
Length	40 mm
Width	70 mm
Net weight	0.149 kg

Environment

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Product certifications	CCC	
	TÜV	
	E2	
	UL	
	CSA	
Ambient air temperature for operation	-2570 °C	
Ambient air temperature for storage	-4085 °C	
Vibration resistance	25 gn amplitude = +/- 2 mm (f = 1055 Hz) conforming to IEC 60068-2-6	
Shock resistance	50 gn for 11 ms conforming to EN 60068-2-27	

Offer Sustainability

Circularity Profile	No need of specific recycling operations	
Environmental Disclosure	Product Environmental Profile	
RoHS exemption information	Yes	
Mercury free	Yes	
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration	
Sustainable offer status	Green Premium product	

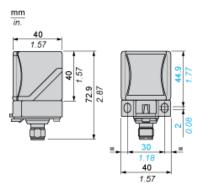
Contractual warranty

Warranty	18 months

Product data sheet Dimensions Drawings

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Dimensions

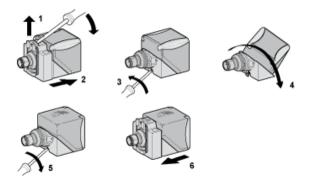


Product data sheet Mounting and Clearance

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Mounting

Head Positions

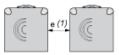


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Setting-up Precautions

Minimum Mounting Distances (mm)

Side by Side



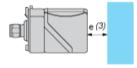
e (1) ≥ 80





e (2) ≥ 160

Facing a Metal Object



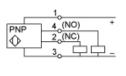
e (3) ≥ 60

Product data sheet Connections and Schema

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Wiring Schemes

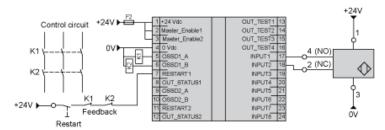
4-Wire DC



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SIL 2 Wiring Scheme

With Preventa XPSMF40 Safety PLC



SFF: (Safe Failure Fraction): 92,68 % DC: (Diagnosis Coverage): 75,8 %