

Product data sheet Characteristics

XS8C4A4PCM12

Inductive proximity sensors XS, inductive sensor XS8 40x40x117, PBT, Sn40 mm, 12...48 VDC, M12





Main

Range of product	Telemecanique Inductive proximity sensors XS
Series name	General purpose
Sensor type	Inductive proximity sensor
Device application	Mobile equipment
Sensor name	XS8
Sensor design	Form 40 x 40 x 117
Size	117 mm
Body type	Fixed
Detector flush mounting acceptance	Non flush mountable
Material	Plastic
Enclosure material	PBT
Type of output signal	Discrete
Wiring technique	4-wire
[Sn] nominal sensing distance	40 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

Safety level	SIL 2 conforming to IEC 61508	
	PL = d conforming to ISO 13849-1	
	SILCL 2 conforming to IEC 62061	
Safety reliability data	MTTFd = 1546 years	
	PFHd = 7.4E-8 1/h	
	SFF = 92 %	
	DC = 75 % with appropriate safety controller	
Detection face	5 positions turret head	
Front material	PBT	
Operating zone	032 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	<= 200 Hz	

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Maximum voltage drop	<2 V (closed)
Current consumption	015 mA no-load
Maximum delay first up	7.5 ms
Maximum delay response	1.4 ms
Maximum delay recovery	2.5 ms
Marking	CE
Height	40 mm
Length	40 mm
Width	129 mm
Net weight	0.244 kg

Environment

Product certifications	E2[RETURN]CSA[RETURN]UL[RETURN]CCC[RETURN]TÜV
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 IEC 60068-2-27

Packing Units

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Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	14.300 cm
Package 1 Width	5.000 cm
Package 1 Length	5.000 cm
Package 1 Weight	275.000 g
Unit Type of Package 2	S02
Number of Units in Package 2	14
Package 2 Height	15 cm
Package 2 Width	30 cm
Package 2 Length	40 cm
Package 2 Weight	4.212 kg

Offer Sustainability

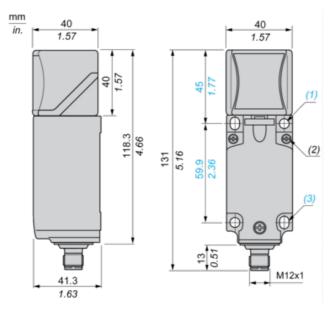
Sustainable offer status	Green Premium product
REACh Regulation	☑ REACh Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
Mercury free	Yes
RoHS exemption information	₫Yes
Circularity Profile	No need of specific recycling operations

Contractual warranty

Warranty	18 months

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Dimensions

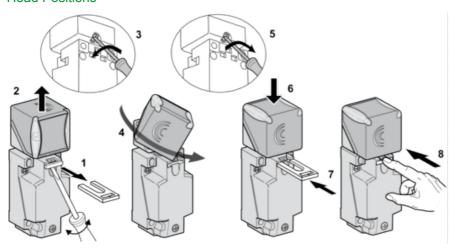


- (1) 2 holes Ø 5,45 mm / Ø 0.21 in. (Tightening torque: < 1,5 Nm / < 13.3 lb-in.)
- (2) 3 screws M3,5. (Tightening torque: < 1,2 Nm / < 10.6 lb-in.)
- (3) 2 elongated holes 5,4 x 7,4 mm / 0.21 x 0.29 in. (Tightening torque: < 1,5 Nm / < 13.3 lb-in.)

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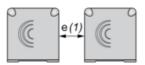
Mounting

Head Positions

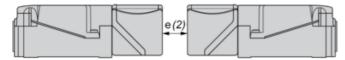


Setting-up Precautions

Side by Side

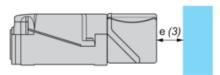


e (1) ≥ 160 Face to Face



e (2) ≥ 320

Facing a Metal Object

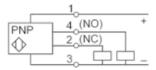


e (3) ≥ 120

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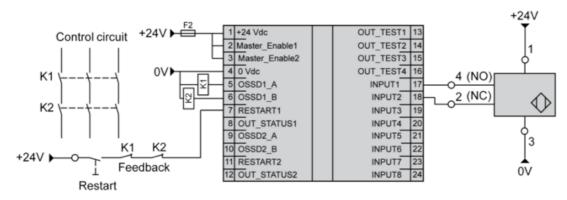
Wiring Schemes

4-Wire DC



SIL 2 Wiring Scheme

With Preventa XPSMF40 Safety PLC



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