XS8C4A1PCM12

Inductive proximity sensors XS, inductive sensor XS8 40x40x117, PBT, Sn20 mm, 12...48 VDC, M12

Green Premium Product

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	Flush mountable
Material	Plastic
Enclosure Material	PBT
Type of output signal	Discrete
Wiring Technique	4-wire
[Sn] nominal sensing distance	0.79 in (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	12...48 V DC reverse polarity protection
Switching capacity in mA	<= 200 mA 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 EN/IEC 61508 PL = d EN/ISO 13849-1 SILCL 2 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	0.00…0.63 in (0…16 mm)
Differential travel	3...15% of Sr
Repeat accuracy	<= 3% of Sr
Status LED	Supply on 1 LED green) Output state 1 LED yellow)
Supply voltage limits	10…58 V DC
Switching frequency	<= 300 Hz
Maximum voltage drop	<2 V closed)
Current consumption	0...15 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	1.57 in (40 mm)
Length	1.57 in (40 mm)
Width	5.08 in (129 mm)
Net Weight	0.54 lb(US) (0.244 kg)

Environment

Product Certifications	TÜV CCC E2 CSA UL
Ambient Air Temperature for Operation	-13…158 °F (-25…70 °C)
Ambient Air Temperature for Storage	-40…185 °F (-40…85 °C)
Vibration resistance	25 gn +/- 2 mm 10…55 Hz)IEC 60068-2-6
Shock resistance	50 gn 11 msEN 60068-2-27

Ordering and shipping details

Category	22486-SENSORS, PROXIMITY
Discount Schedule	DS2
GTIN	3389119058247
Nbr. of units in pkg.	1
Package weight(Lbs)	9.70 oz (275.0 g)
Returnability	No
Country of origin	FR

Packing Units

| Unit Type of Package 1	PCE
Package 1 Height	1.81 in (4.6 cm)
Package 1 width	1.81 in (4.6 cm)
Package 1 Length	5.51 in (14 cm)
Unit Type of Package 2	S02
Number of Units in Package 2	14
Package 2 Weight	9.14 lb(US) (4.148 kg)
Package 2 Height	5.91 in (15 cm)
Package 2 width	11.81 in (30 cm)
Package 2 Length	15.75 in (40 cm)

Offer Sustainability

Sustainable offer status	Green Premium product
California proposition 65	WARNING: This product can expose you to chemicals including: Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, and Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov
REACh Regulation	REACh Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
Environmental Disclosure	Product Environmental Profile

Contractual warranty

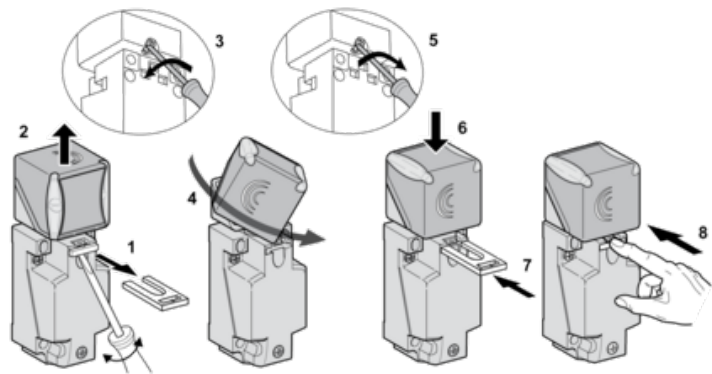| Warranty	18 months

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Dimensions
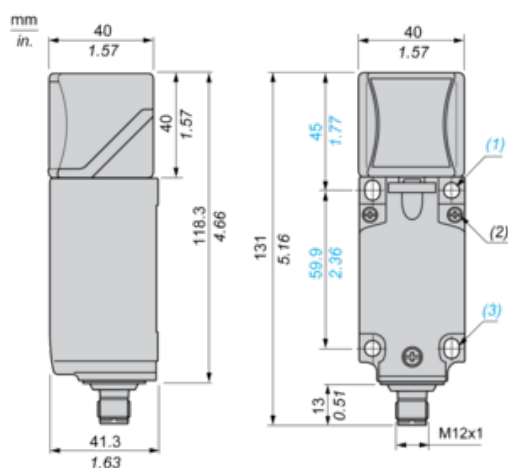
(1) 2 holes Ø 5,45 mm / Ø 0.21 in. (Tightening torque: < 1,5 Nm / < 13.3 lb-in.)

(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.)
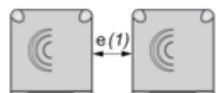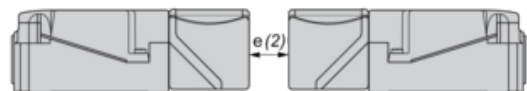
Mounting

Head Positions

Setting-up Precautions

Minimum Mounting Distances (mm)

Side by Side

e (1) ≥ 80

Face to Face

e (2) ≥ 160

Facing a Metal Object

e (3) ≥ 60
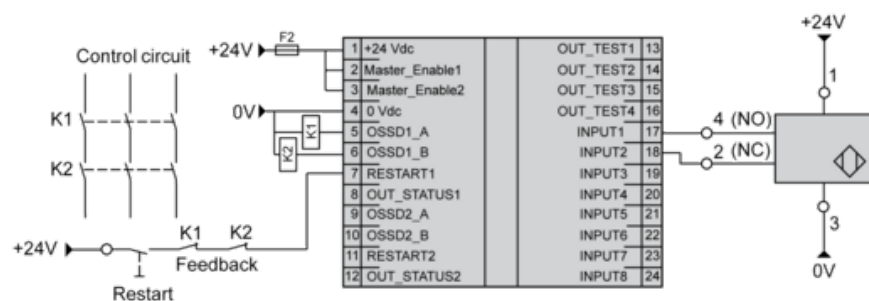
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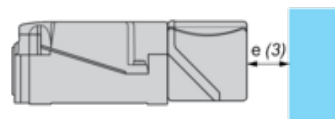
Wiring Schemes

4-Wire DC
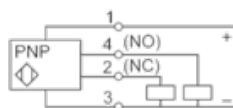
SIL 2 Wiring Scheme

With Preventa XPSMF40 Safety PLC

SFF : (Safe Failure Fraction): 92,68 %

DC : (Diagnosis Coverage): 75,8 %

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Authorized Distributor

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