

Product data sheet

XS8C2A1PCM12

Inductive sensor, XS8, 40x40x70 mm, PBT, Sn 20 mm, PNP, M12 connector, 12...48 VDC, flush, 4 wires

Main

Range of product	Telemecanique Inductive proximity sensors XS
Series name	General purpose
Sensor name	XS8
Sensor type	Inductive proximity sensor
Sensor design	Form 40 x 40 x 70
Device application	Mobile equipment
ETIM classification	ETIM 9 - EC002714 - Inductive proximity switch
Body type	Fixed
Material	Plastic
Front material	PBT
Enclosure material	PBT
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
[Sn] nominal sensing distance	20 mm
Wiring technique	3-wire
Detector flush mounting acceptance	Flush mountable
Delay response	1.2 ms
Product certifications	CCC CSA E2 TÜV UL
Marking	CE
Indivisible sale quantity	1

Complementary

Sensing range	> 15...40 mm
Repeat accuracy	<= 3% of Sr
Electrical connection	Male connector M12, 4 pins
Supply voltage limits	10-58 V DC
[Us] rated supply voltage	12...48 V DC with reverse polarity protection

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein.
This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications.
It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof.
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Switching capacity in mA	<= 200 mA with overload and short-circuit protection
Voltage drop	<2 V (closed)
Current consumption	0...15 mA no-load
Status LED	Supply on: 1 LED (green), output state: 1 LED (yellow)
Output circuit type	DC
Type of output signal	Discrete
Detection face	5 positions turret head
Discrete output type	PNP
Discrete output function	1 NO + 1 NC
Switching frequency	<= 300 Hz
Differential travel	3...15% of Sr
Delay first up	7.5 ms
Delay recovery	1.8 ms
Height	40 mm
Width	70 mm
Length	40 mm
Size	70 mm
Product weight	0.149 kg

Environment

IP degree of protection	IP67 conforming to IEC 60529, IP65 conforming to IEC 60529, IP69K conforming to DIN 40050
Ambient air temperature for operation	-25...70 °C
Ambient air temperature for storage	-40...85 °C
Shock resistance	50 gn for 11 ms conforming to IEC 60068-2-27
Vibration resistance	25 gn amplitude = +/- 2 mm (f = 10-55 Hz) conforming to IEC 60068-2-6

Offer Sustainability

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

Warranty

Warranty	18 months

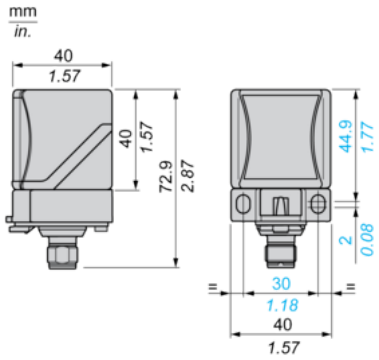
Packing Units

Country of origin	ID (Indonesia)
Unit type of package 1	PCE
Number of units in package 1	1
New Package 1 GTIN-13	3666916010464

Package 1 height	8.9 cm
Package 1 width	4.3 cm
Package 1 length	4.7 cm
Package 1 weight	0.149 kg
Unit type of package 2	S02
Number of units in package 2	42
New Package 2 GTIN 14	13666916010461
Package 2 height	30 cm
Package 2 width	15 cm
Package 2 length	40 cm
Package 2 weight	6.7905 kg
Unit type of package 3	CAR
Number of units in package 3	1
New Package 3 GTIN 14	23666916010468
Package 3 height	8.9 cm
Package 3 width	4.3 cm
Package 3 length	4.7 cm
Package 3 weight	0.15 kg

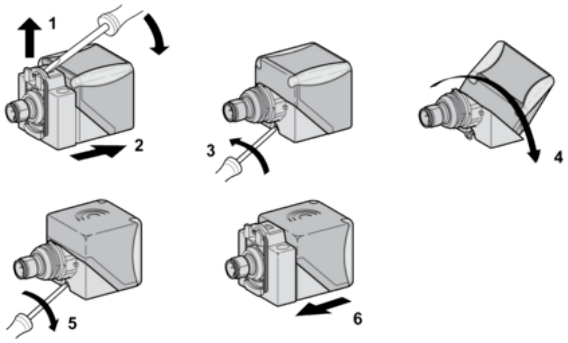
Technical Drawings

Dimensions



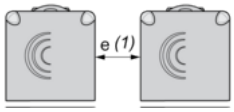
Mounting

Head Positions

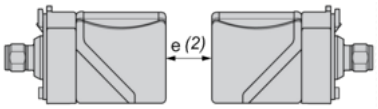


Setting-up Precautions

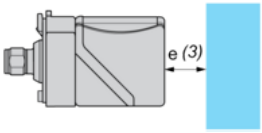
Minimum Mounting Distances (mm)



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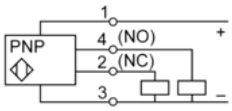
Minimum Mounting Distances (mm)



Side by Side
e (1) ≥
Face to Face
e (2) ≥
Facing a Metal Object
e (3) ≥

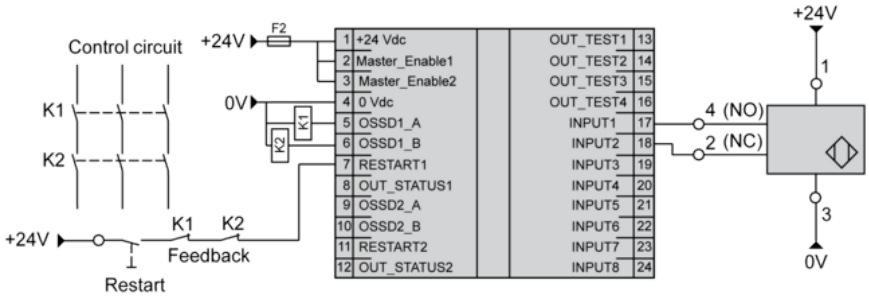
Wiring Schemes

4-Wire DC



SIL 2 Wiring Scheme

With Preventa XPSMF40 Safety PLC



SFF :
DC :