



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

XS8C4A4PCM12

Main

IVIAIII	
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

Complementary

Cafatu naliabilitu data	MTTCd = 4546 years
Safety level	SIL 2 conforming to EN/IEC 61508 PL = d conforming to EN/ISO 13849-1 SILCL 2 conforming to IEC 62061

Safety reliability data MTTFd = 1546 year PFHd = 7.4E-8 1/h

SFF = 92 %

DC = 75 % with appropriate safety controller

IP69K conforming to DIN 40050

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
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
	0.244 kg
Environment	
	E2 CSA
Environment	E2 CSA UL CCC
Environment Product certifications	E2 CSA UL CCC TÜV
Environment	E2 CSA UL CCC
Environment Product certifications Ambient air temperature for	E2 CSA UL CCC TÜV
Environment Product certifications Ambient air temperature for operation Ambient air temperature for	E2 CSA UL CCC TÜV
Environment Product certifications Ambient air temperature for operation Ambient air temperature for storage	E2 CSA UL CCC TÜV -2570 °C
Environment Product certifications Ambient air temperature for operation Ambient air temperature for storage Vibration resistance Shock resistance	E2 CSA UL CCC TÜV -2570 °C -4085 °C 25 gn amplitude = +/- 2 mm (f = 1055 Hz) conforming to IEC 60068-2-6
Environment Product certifications Ambient air temperature for operation Ambient air temperature for storage Vibration resistance Shock resistance Packing Units	E2 CSA UL CCC TÜV -2570 °C -4085 °C 25 gn amplitude = +/- 2 mm (f = 1055 Hz) conforming to IEC 60068-2-6 50 gn for 11 ms conforming to EN 60068-2-27
Environment Product certifications Ambient air temperature for operation Ambient air temperature for storage Vibration resistance Shock resistance Packing Units Unit Type of Package 1	E2 CSA UL CCC TÜV -2570 °C -4085 °C 25 gn amplitude = +/- 2 mm (f = 1055 Hz) conforming to IEC 60068-2-6 50 gn for 11 ms conforming to EN 60068-2-27
Environment Product certifications Ambient air temperature for operation Ambient air temperature for storage Vibration resistance Shock resistance Packing Units Unit Type of Package 1 Number of Units in Package 1	E2 CSA UL CCC TÜV -2570 °C -4085 °C 25 gn amplitude = +/- 2 mm (f = 1055 Hz) conforming to IEC 60068-2-6 50 gn for 11 ms conforming to EN 60068-2-27 Db 1
Environment Product certifications Ambient air temperature for operation Ambient air temperature for storage Vibration resistance Shock resistance Packing Units Unit Type of Package 1 Number of Units in Package 1 Package 1 Height	E2 CSA UL CCC TÜV -2570 °C -4085 °C 25 gn amplitude = +/- 2 mm (f = 1055 Hz) conforming to IEC 60068-2-6 50 gn for 11 ms conforming to EN 60068-2-27 Db 1 5.0 cm
Environment Product certifications Ambient air temperature for operation Ambient air temperature for storage Vibration resistance Shock resistance Packing Units Unit Type of Package 1 Number of Units in Package 1 Package 1 Height Package 1 Width	E2 CSA UL CCC TÜV -2570 °C -4085 °C 25 gn amplitude = +/- 2 mm (f = 1055 Hz) conforming to IEC 60068-2-6 50 gn for 11 ms conforming to EN 60068-2-27 Db 1
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Number of Units in Package 2

Package 2 Height

Package 2 Width

Package 2 Length

Package 2 Weight

14

15.0 cm

30.0 cm

40.0 cm

4.212 kg

Offer Sustainability

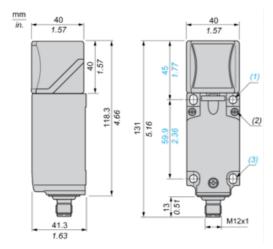
Sustainable offer status	Green Premium product
REACh Regulation	REACh Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
Environmental Disclosure	Product Environmental Profile
California proposition 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
Contractual warranty	

Warranty 18 months

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Dimensions Drawings

Dimensions



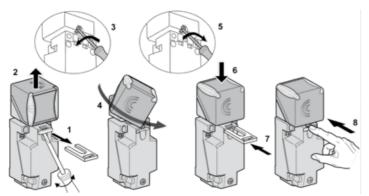
- (1) 2 holes Ø 5,45 mm / Ø 0.21 in. (Tightening torque: < 1,5 Nm / < 13.3 lb-in.)
- (2) 3 screws M3,5. (Tightening torque: < 1,2 Nm / < 10.6 lb-in.)
- (3) 2 elongated holes 5,4 x 7,4 mm / 0.21 x 0.29 in. (Tightening torque: < 1,5 Nm / < 13.3 lb-in.)

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Mounting and Clearance

Mounting

Head Positions

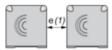


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Mounting and Clearance

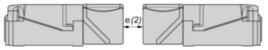
Setting-up Precautions

Side by Side



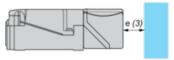
e (1) ≥ 160

Face to Face



e (2) ≥ 320

Facing a Metal Object



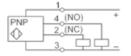
e (3) ≥ 120

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Connections and Schema

Wiring Schemes

4-Wire DC

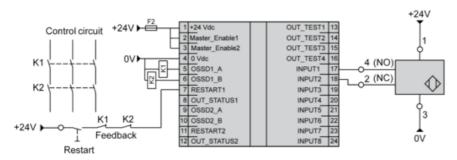


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Connections and Schema

SIL 2 Wiring Scheme

With Preventa XPSMF40 Safety PLC



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

Recommended replacement(s)