

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

XS8C4A1PCP20

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	20 mm
Discrete Output Function	1 NO + 1 NC
Output Circuit Type	DC
Discrete Output Type	PNP
Electrical Connection	Screw-clamp terminals, 4 x 1.5 mm²
[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	016 mm
Differential Travel	315% of Sr
Repeat Accuracy	<= 3% of Sr
Cable Entry Number	1 tapped entry for M20 x 1.5 cable gland
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	117 mm
Net Weight	0.244 kg

Environment

Product Certifications	E2
	CCC
	UL
	TÜV
	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 IEC 60068-2-27

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	14.500 cm
Package 1 Width	5.000 cm
Package 1 Length	5.000 cm
Package 1 Weight	256.000 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	3.840 kg

Contractual warranty

Warranty

18 months

Sustainability

Green PremiumTM label is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >



RoHS/REACh

Well-being performance



Mercury Free



Rohs Exemption Information

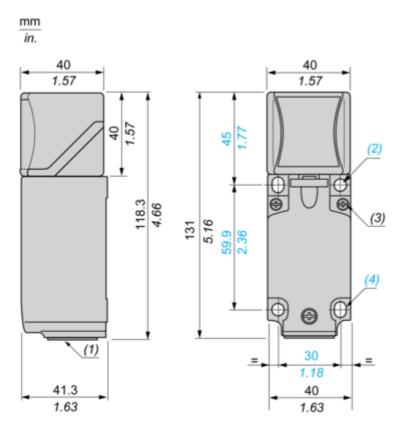
Yes

Certifications & Standards

Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
Circularity Profile	No need of specific recycling operations
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 Diisodecyl 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

Dimensions Drawings

Dimensions



- (1): M20 x 1.5 cable gland.
- (2): 2 holes Ø 5,45 mm / Ø 0.21 in. Tightening torque: < 1,5 Nm / < 13.3 lb-in.
- (3): 3 screws M3,5. Tightening torque: < 1,2 Nm / < 10.6 lb-in.
- (4): 2 alongated holes 5,4 x 7,4 mm / 0.21 x 0.29 in. Tightening torque: < 1,5 Nm / < 13.3 lb-in".

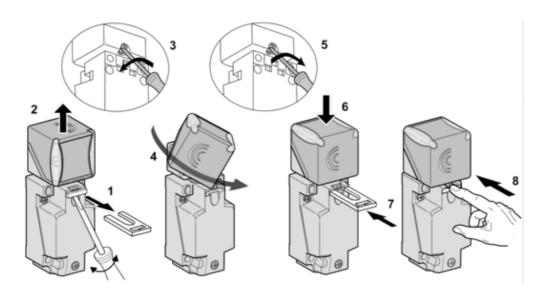
Product data sheet

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Mounting and Clearance

Mounting

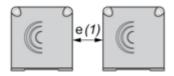
Head Positions



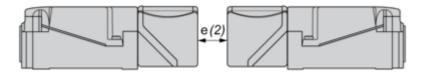
Setting-up Precautions

Minimum Mounting Distances (mm)

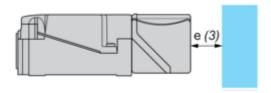
Side by Side



e (1) ≥ 80 Face to Face



e (2) ≥ 160 Facing a Metal Object



e (3) ≥ 60

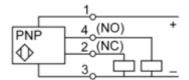
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Connections and Schema

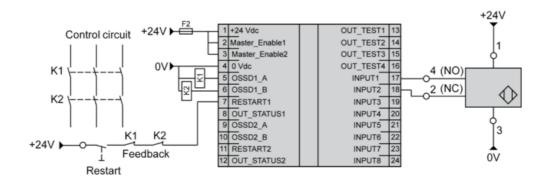
Wiring Schemes

4-Wire DC



SIL 2 Wiring Scheme

With Preventa XPSMF40 Safety PLC



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