Product data sheet
Characteristics

XS8C4A1PCP20
inductive sensor XS8 40x40x117 - PBT - Sn20 mm - 12..48VDC - terminals

Green Premium™ Product

Main

Range of product	OsiSense 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, clamping capacity: 4 x 1.5 mm²
[Us] rated supply voltage	12...48 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 EN/IEC 61508 PL = d conforming to EN/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	0...16 mm
Differential travel	3...15% of Sr
Repeat accuracy	<= 3% of Sr
Cable entry number	1 tapped entry for M20 x 1.5 cable gland
Status LED	1 LED green for supply on 1 LED yellow for output state
Supply voltage limits	10...58 V DC
Switching frequency	<= 300 Hz
Voltage drop	<= 2 V at closed state
Current consumption	0...15 mA at no-load

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Delay first up	<= 7.5 ms
Delay response	<= 1.2 ms
Delay recovery	<= 1.8 ms
Marking	CE
Height	40 mm
Length	40 mm
Width	117 mm
Product weight	0.244 kg

Environment

Product certifications	CCC CSA TÜV UL E2
Ambient air temperature for operation	-25...70 °C
Ambient air temperature for storage	-40...85 °C
Vibration resistance	25 gn amplitude = +/- 2 mm (f = 10...55 Hz) conforming to IEC 60068-2-6
Shock resistance	50 gn for 11 ms conforming to EN 60068-2-27

Offer Sustainability

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Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 1213 - Schneider Electric declaration of conformity
REACh	Reference not containing SVHC above the threshold
Product environmental profile	Available Download Product Environmental
Product end of life instructions	Need no specific recycling operations

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Sensors

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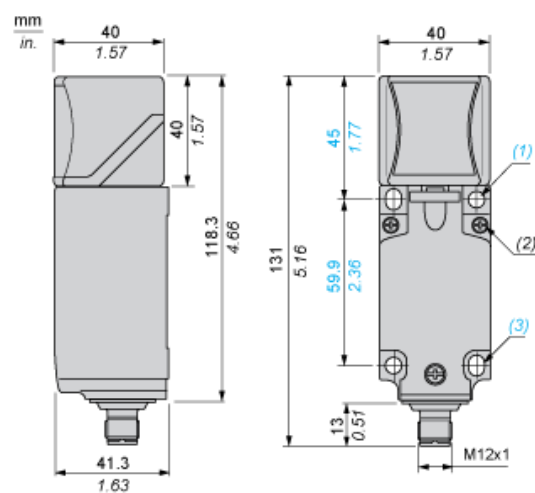
(1)   2 holes Ø 5,45 mm / Ø 0.21 in. (Tightening torque: < 1,5 Nm / < 13.3 lb-in.)
(2)   3 screws M3,5. (Tightening torque: < 1,2 Nm / < 10.6 lb-in.)
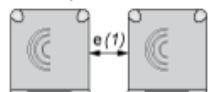(3)   2 elongated holes 5,4 x 7,4 mm / 0.21 x 0.29 in. (Tightening torque: < 1,5 Nm / < 13.3 lb-in.)

Mounting
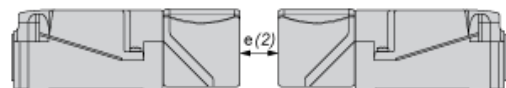
Head Positions
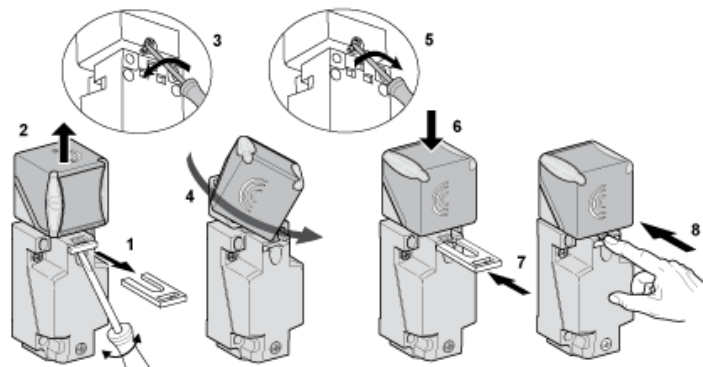
Setting-up Precautions

Minimum Mounting Distances (mm)

Side by Side

e (1) 80
≥

Face to Face

e (2) 160
≥

Facing a Metal Object

e (3) 60
≥

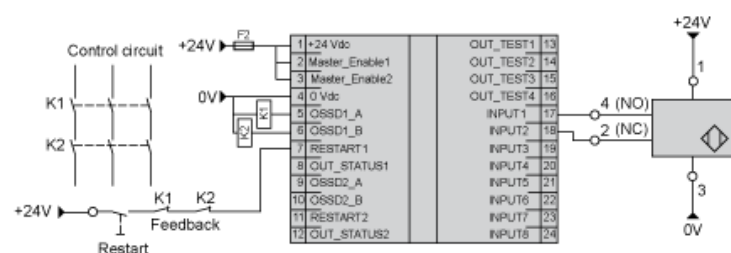Telemecanique
Sensors
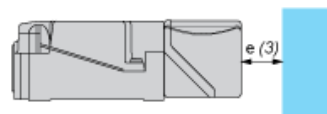
Wiring Schemes

4-Wire DC
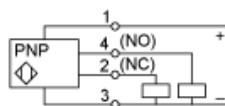
SIL 2 Wiring Scheme

With Preventa XPSMF40 Safety PLC

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