

Product data sheet

Characteristics

XS8C4A4PCM12

inductive sensor XS8 40x40x117 - PBT - Sn40
mm - 12..48VDC - M12



Product availability: Stock - Normally stocked in distribution facility



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 | Non flush mountable |
| Material | Plastic |
| Enclosure material | PBT |
| Type of output signal | Discrete |
| Wiring technique | 4-wire |
| [Sn] nominal sensing distance | 1.57 in (40 mm) |
| Discrete output function | 1 NO + 1 NC |
| Output circuit type | DC |
| Discrete output type | PNP |
| Electrical connection | 4 pins M12 male connector |
| [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 | IP65 conforming to IEC 60529 IP67 conforming to IEC 60529 IP69K conforming to DIN 40050 |

Complementary

| | |
|-------------------------|--|
| Safety level | SILCL 2 conforming to IEC 62061 PL = d conforming to EN/ISO 13849-1 SIL 2 conforming to EN/IEC 61508 |
| Safety reliability data | SFF = 92 % DC = 75 % with appropriate safety controller MTTFd = 1546 years PFHd = 7.4E-8 1/h |
| Detection face | 5 positions turret head |
| Front material | PBT |
| Operating zone | 0...1.26 in (0...32 mm) |
| Differential travel | 3...15% of Sr |
| Repeat accuracy | <= 3% of Sr |
| Status LED | 1 LED green supply on 1 LED yellow output state |
| Supply voltage limits | 10...58 V DC |
| Switching frequency | <= 200 Hz |
| Voltage drop | <= 2 V at closed state |
| Current consumption | 0...15 mA at no-load |
| Delay first up | <= 7.5 ms |
| Delay response | <= 1.4 ms |

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| | |
|----------------|------------------------|
| Delay recovery | <= 2.5 ms |
| Marking | CE |
| Height | 1.57 in (40 mm) |
| Length | 1.57 in (40 mm) |
| Width | 5.08 in (129 mm) |
| Product weight | 0.54 lb(US) (0.244 kg) |

Environment

| | |
|---------------------------------------|---|
| Product certifications | E2 UL CSA TÜV CCC |
| 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 amplitude = +/- 2 mm (f = 10...55 Hz) conforming to IEC 60068-2-6 |
| Shock resistance | 50 gn 11 ms conforming to EN 60068-2-27 |

Ordering and shipping details

| | |
|-----------------------|----------------------------|
| Category | 22486 - SENSORS, PROXIMITY |
| Discount Schedule | DS2 |
| GTIN | 003389119058308 |
| Nbr. of units in pkg. | 1 |
| Package weight(Lbs) | 0.6099999999999999 |
| Returnability | Y |
| Country of origin | FR |

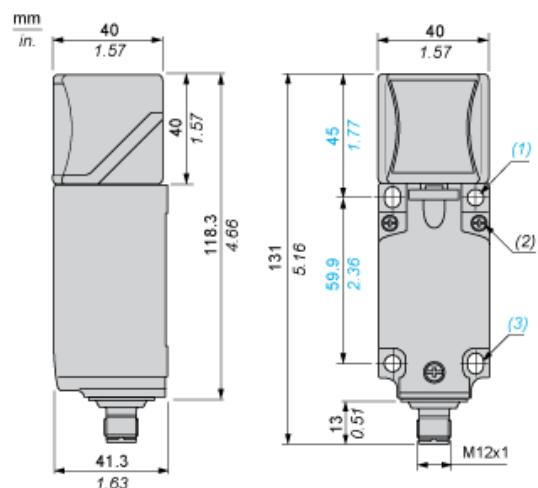
Offer Sustainability

| | |
|----------------------------------|--|
| Sustainable offer status | Green Premium product |
| RoHS (date code: YYWW) | Compliant - since 1213 - Schneider Electric declaration of conformity Schneider Electric declaration of conformity |
| REACH | Reference not containing SVHC above the threshold |
| Product environmental profile | Available |
| Product end of life instructions | Need no specific recycling operations |
| California proposition 65 | WARNING: This product can expose you to chemicals including: |
| ----- Substance 1 | Diisobutyl phthalate (DINP), which is known to the State of California to cause cancer, and |
| ----- Substance 2 | Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. |
| ----- More information | For more information go to www.p65warnings.ca.gov |

Contractual warranty

| | |
|-----------------|-----------|
| Warranty period | 18 months |
|-----------------|-----------|

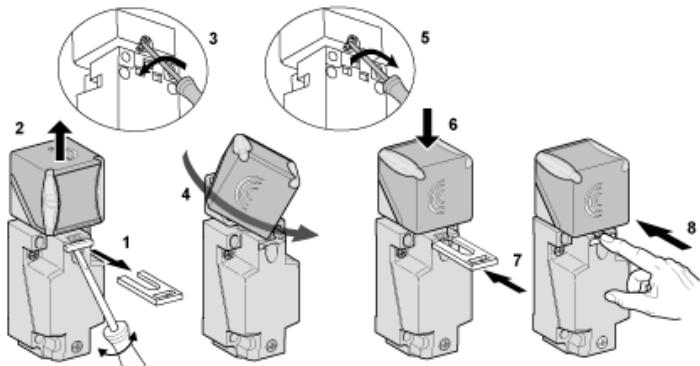
Dimensions



- (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.)

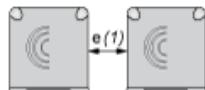
Mounting

Head Positions



Setting-up Precautions

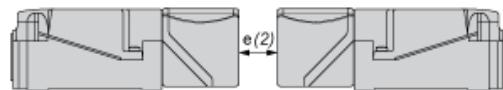
Side by Side



e (1) 160

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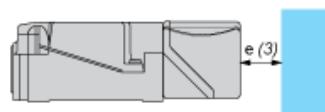
Face to Face



e (2) 320

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Facing a Metal Object

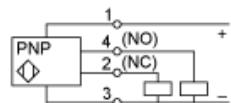


e (3) 120

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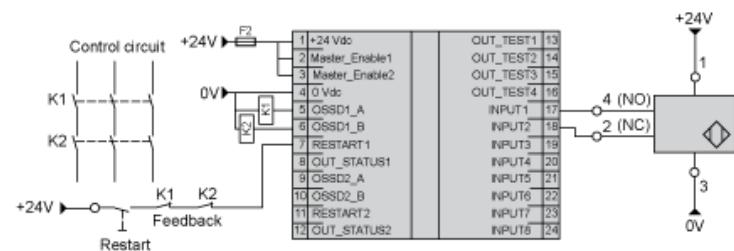
Wiring Schemes

4-Wire DC



SIL 2 Wiring Scheme

With Preventa XPSMF40 Safety PLC



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

Mouser Electronics

Authorized Distributor

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