# Product data sheet
## Characteristics

# XS608B1PAL5

inductive sensor XS6 M8 - L51mm - stainless - Sn2.5mm - 12..48VDC - cable 5m

Green Premium™ Product



## Main

| | |
|---|---|
| Range of product | OsiSense XS |
| Series name | General purpose |
| Sensor type | Inductive proximity sensor |
| Device application | - |
| Sensor name | XS6 |
| Sensor design | Cylindrical M8 |
| Size | 51 mm |
| Body type | Fixed |
| Detector flush mounting acceptance | Flush mountable |
| Material | Stainless steel |
| Type of output signal | Discrete |
| Wiring technique | 3-wire |
| [Sn] nominal sensing distance | 2.5 mm |
| Discrete output function | 1 NO |
| Output circuit type | DC |
| Discrete output type | PNP |
| Electrical connection | Cable |
| Cable length | 5 m |
| [Us] rated supply voltage | 12...48 V DC with reverse polarity protection |
| Switching capacity in mA | <= 200 mA DC with overload and short-circuit protection |
| IP degree of protection | IP67 conforming to IEC 60529 |

## Complementary

| | |
|---|---|
| Thread type | M8 x 1 |
| Detection face | Frontal |
| Front material | PPS |
| Enclosure material | Stainless steel 303 |

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| | |
|---|---|
| Sensing range | > 0...2.5 mm |
| Operating zone | 0...2 mm |
| Differential travel | 1...15% of Sr |
| Cable composition | 3 x 0.11 mm² |
| Wire insulation material | PvR |
| Status LED | 1 LED (yellow) for output state |
| Supply voltage limits | 10...58 V DC |
| Switching frequency | <= 2500 Hz |
| Voltage drop | <= 2 V, closed state |
| Current consumption | <= 10 mA (no-load) |
| Delay first up | <= 10 ms |
| Delay response | <= 0.2 ms |
| Delay recovery | <= 0.2 ms |
| Marking | CE |
| Threaded length | 42 mm |
| Length | 51 mm |
| Product weight | 0.155 kg |

## Environment

| | |
|---|---|
| Product certifications | CSA<br>UL |
| 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 (duration = 11 ms) conforming to IEC 60068-2-27 |

## Offer Sustainability

| | |
|---|---|
| Sustainable offer status | Green Premium product |
| RoHS (date code: YYWW) | Compliant - since 1010 - Schneider Electric declaration of conformity<br>Schneider Electric declaration of conformity |
| REACh | Reference not containing SVHC above the threshold<br>Reference not containing SVHC above the threshold |
| Product environmental profile | Available<br>Product environmental |
| Product end of life instructions | Available<br>End of life manual |

## Contractual warranty

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

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# XS608B1PAL5

## Dimensions



(1)        LED
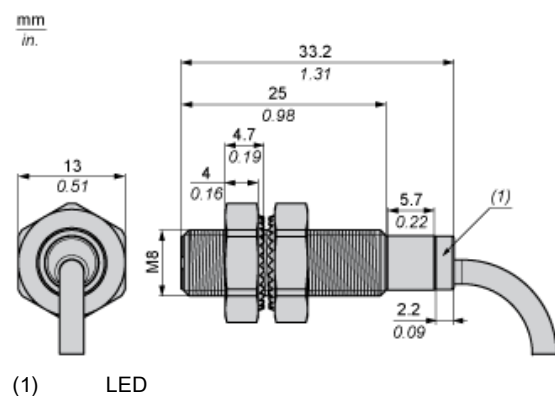
## Minimum Mounting Distances in mm

Side by side



e (1) ≥     5 mm/0.20 in.

Face to face



e (2) ≥     30 mm/1.18 in.

Facing a metal object



e (3) ≥     8 mm/0.31 in.

## Mounting
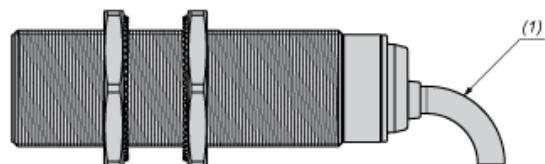


(1)         Bending cable: 4 x external cable diameter

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## Wiring Schemes

PNP



BU : Blue
BN : Brown
BK : Black

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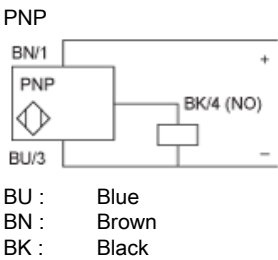
## Performance Curves

### Standard Steel Target (mm) : 8x8x1
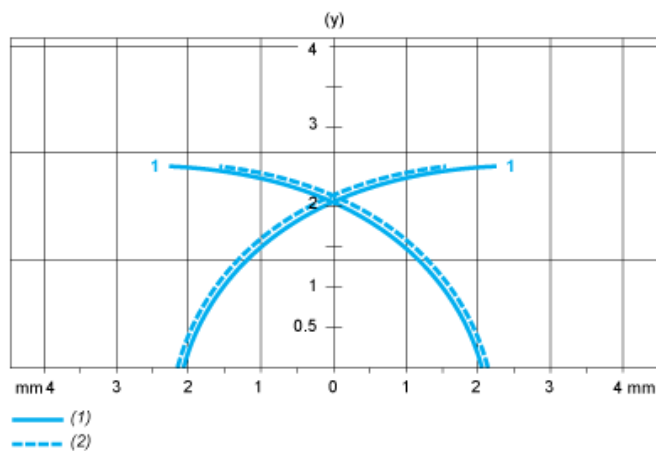


(1)     Pick-up points
(2)     Drop-out points (object approaching from the side)
(y)     Sensing distance in mm