Product data sheet
Characteristics

XS212B4PAL5
inductive sensor XS2 M12 - L37mm - brass - Sn8mm - 12..24VDC - cable 5m

Green Premium

Main

Range of product	OsiSense XS
Series name	General purpose
Sensor type	Inductive proximity sensor
Device application	Mobile equipment
Sensor name	XS2
Sensor design	Cylindrical M12
Size	37 mm
Body type	Fixed
Detector flush mounting acceptance	Non flush mountable
Material	Metal
Type of output signal	Discrete
Wiring technique	3-wire
[Sn] nominal sensing distance	8 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...24 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 DIN 40050 IP65 conforming to IEC 60529 IP69K

Complementary

Thread type	M12 x 1
Detection face	Frontal
Front material	PPS

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Enclosure material	Nickel plated brass
Operating zone	0...6.4 mm
Differential travel	1...15% of Sr
Cable composition	3 x 0.34 mm²
Wire insulation material	PvR
Status LED	1 LED yellow for output state
Supply voltage limits	10...36 V DC
Switching frequency	<= 2000 Hz
Voltage drop	<= 2 V at closed state
Current consumption	<= 10 mA at no-load
Delay first up	<= 15 ms
Delay response	<= 0.2 ms
Delay recovery	<= 0.2 ms
Marking	CE
Threaded length	20 mm
Length	37 mm
Product weight	0.16 kg

Environment

Product certifications	CSA 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 IEC 60068-2-27

Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant Schneider Electric declaration of conformity
REACh	Reference not containing SVHC above the threshold Reference not containing SVHC above the threshold
Product environmental profile	Available End of Life Information
Product end of life instructions	Available

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Dimensions

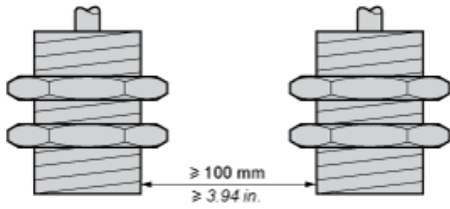### Pre-cabled

mm / in.
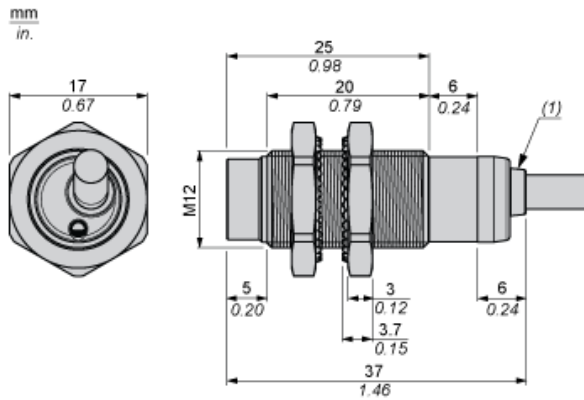
(1)   Yellow LED (Output state indication)

Mounting and Clearance

Minimum Mounting Distances

Side by Side

≥ 100 mm
≥ 3.94 in.

Face to Face

≥ 120 mm
≥ 4.73 in.
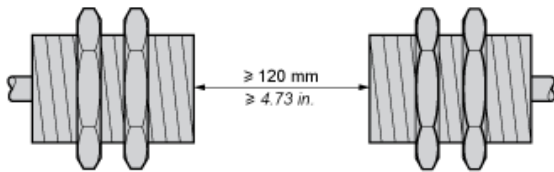
Facing a Metal Object

≥ 24 mm
≥ 0.95 in.
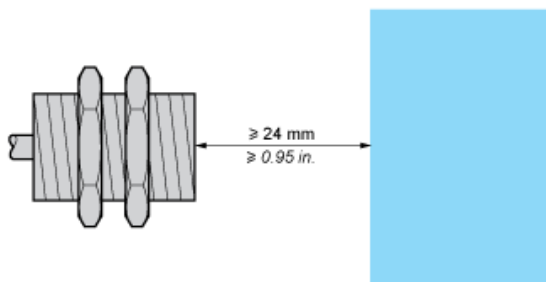
Mounted in a Metal Support

≥ 36 mm
≥ 1.42 in.

≥ 15 mm
≥ 0.60 in.

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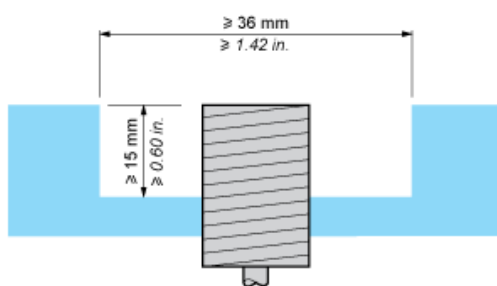
Connection and Schema

Wiring Schemes

PNP 3-wire

```
BN/1 ─────────────────────────── +
  ┌──────────┐
  │ PNP      │      BK/4 (NO)
  │  ◇       │      BK/2 (NC)
  │          │      ┌───┐
BU/3 ────────┘      └───┘────── −
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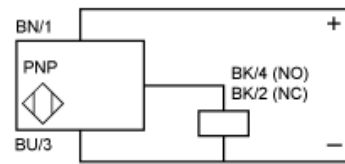
BN :   Brown
BK :   Black
BU :   Blue

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Performance Curves

Standard Steel Target: 12 x 12 x 1 mm

Operating zone: 0…6.4 mm
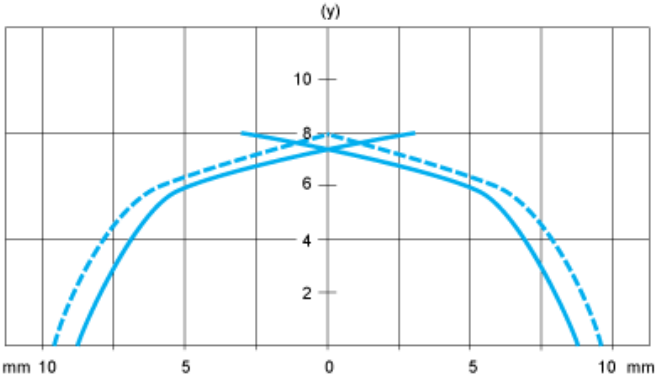
(y)   Sensing distance in mm
(1)   Pick-up points
(2)   Drop-out points (object approaching from the side)