Product datasheet
Characteristics

XS112B3PCM12

inductive sensor XS1 M12 - PNP NO&NC - Flush - Sn4mm - 12..24VDC - M12

Main

Range of product	OsiSense XS
Series name	General purpose
Sensor type	Inductive proximity sensor
Device application	Mobile equipment Light hoisting
Sensor name	XS1
Sensor design	Cylindrical M12
Body type	Fixed
Detector flush mounting acceptance	Flush mountable
Material	Metal
Type of output signal	Discrete
Wiring technique	4-wire
[Sn] nominal sensing distance	4 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...24 V DC with reverse polarity protection
Switching capacity in mA	<= 200 mA with overload and short-circuit protection
IP degree of protection	IP67 IP65 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	MTTFd = 1810 years PFHd = 62.9E-9 1/h SFF = 92 % DC = 74 % with appropriate safety controller
Service life	20 yr
Thread type	M12 x 1
Detection face	Frontal
Front material	PPS
Enclosure material	Nickel plated brass
Operating zone	0...3.2 mm
Differential travel	3...15% of Sr
Status LED	1 LED yellow for output state
Supply voltage limits	9...36 V DC
Switching frequency	<= 5000 Hz
Voltage drop	<= 2 V at closed state
Current consumption	0...10 mA at no-load
Delay first up	<= 5 ms
Delay response	<= 0.1 ms
Delay recovery	<= 0.1 ms
Marking	CE
Threaded length	31 mm

Height	18 mm
Length	50 mm
Product weight	0.02 kg

Environment

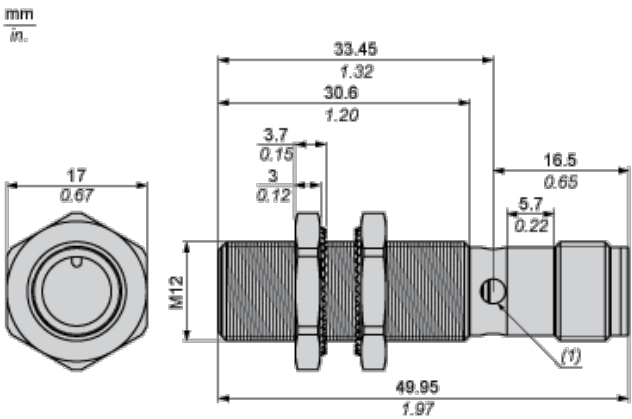| standards	EN/ISO 13849-1 IEC 62061
product certifications	CSA TÜV UL E2
ambient air temperature for operation	-25...70 °C
ambient air temperature for storage	-40...85 °C
vibration resistance	25 gn amplitude = +/- 2 mm (f = 10...55 Hz) conforming to IEC 60068-2-6
shock resistance	50 gn for 11 ms conforming to IEC 60068-2-27

Offer Sustainability

Sustainable offer status	Not Green Premium product
RoHS (date code: YYWW)	Compliant - since 1513 - Schneider Electric declaration of conformity
REACh	Reference not containing SVHC above the threshold

Contractual warranty

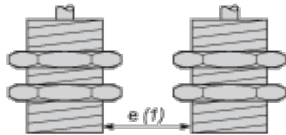| Warranty period	18 months

Dimensions

(1) LED

Minimum Mounting Distances

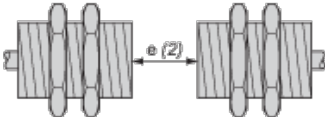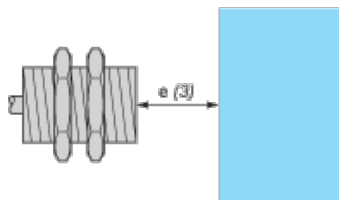Side by side

e (1) 8 mm/0.31 in.
≥

Face to face

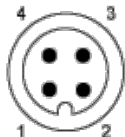**e (2)** 48 mm/1.89 in.
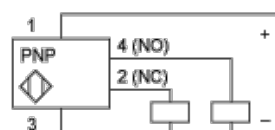≥

Facing a metal object

e (3) 12 mm/0.47 in.
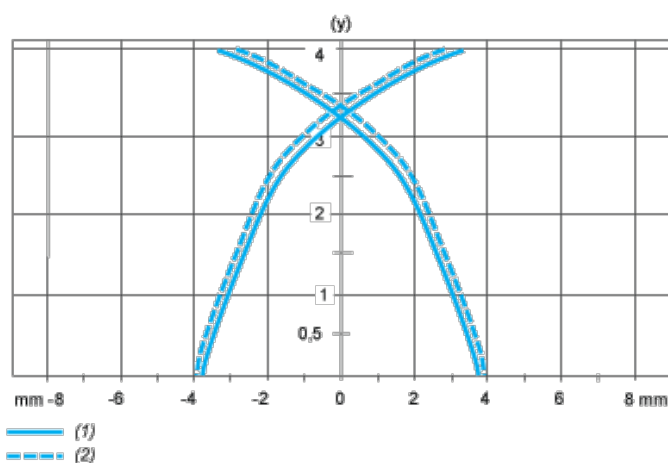≥

Wiring Schemes

M12 connector

PNP 4-wire

Performance Curves

Standard Steel Target : 12x12x1 mm

(1)
(2)

(1) Pick-up points

(2) Drop-out points (object approaching from the side)

(y) Sensing distance in mm