

XT112S1PCM12

DATASHEET

Sensor Partners BV

James Wattlaan 15
5151 DP Drunen
The Netherlands

+31 (0)416 - 37 82 39
info@sensorpartners.com
sensorpartners.com

Sensor Partners BVBA

Z.1 Researchpark 310
B-1731, Zellik
Belgium

+32 (0)2 - 464 96 90
info@sensorpartners.com
sensorpartners.com

Product datasheet

Characteristics

XT112S1PCM12

capacitive sensor - XT1 - cylindrical M12 -stainless steel -
Sn 2mm - 24 V DC



Main

Range of product	OsiSense XT
Sensor type	Capacitive proximity sensor
Product specific application	Detection of insulated or conductive materials
Sensor name	XT1
Sensor design	Cylindrical M12
Size	51 mm
Body type	Fixed
Detector flush mounting acceptance	Flush mountable
Material	Stainless steel
Enclosure material	Stainless steel 303
Type of output signal	Discrete
Wiring technique	4-wire
[Sn] nominal sensing distance	2 mm
Discrete output function	1 NC + 1 NO
Output circuit type	DC
Discrete output type	PNP
Electrical connection	Male connector M12, 4 pins
[Us] rated supply voltage	24 V DC with reverse polarity protection
Maximum delay response	5 ms
IP degree of protection	IP65 conforming to IEC 60529 IP65 conforming to IEC 60947-5-2

Complementary

ISO thread	M12 x 1
Detection face	Frontal
[Sa] assured operating distance	0...1.44 mm
Adjustment zone	0.5...5 mm
Differential travel	< 0.2 x Sr
Repeat accuracy	< 0.1 x Sr
Status LED	Output state indication: 1 LED (yellow)
Supply voltage limits	12...30 V DC

Maximum residual current	0.1 mA open state
Protection type	Short-circuit protection
Switching frequency	<= 300 Hz
Maximum voltage drop	<2 V (closed)
Current consumption	< 15 mA
Maximum delay first up	30 ms
Maximum delay recovery	5 ms
Maximum switching current	200 mA
Marking	CE
Setting-up	Sensitivity by potentiometer
Threaded length	40 mm
Length	51 mm
Net weight	0.04 kg

Environment

Standards	EN/IEC 60947-5-2
Product certifications	CETLus
Ambient air temperature for operation	-25...70 °C
Vibration resistance	10 gn amplitude = 1 mm (f = 10...55 Hz) conforming to IEC 60068-2-6
Shock resistance	30 gn for 11 ms conforming to IEC 60068-2-27
Resistance to electrostatic discharge	4 kV contact conforming to IEC 61000-4-2 8 kV air conforming to IEC 61000-4-2
Resistance to electromagnetic fields	3 V/m conforming to IEC 61000-4-3
Resistance to fast transients	2 kV conforming to IEC 61000-4-4

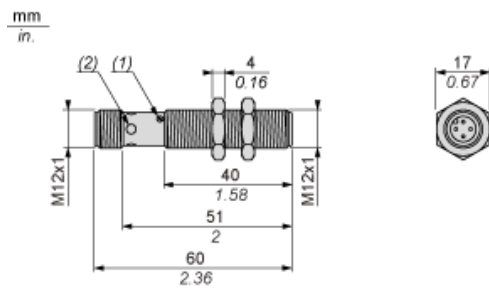
Offer Sustainability

EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes

Contractual warranty

Warranty	18 months
----------	-----------

Dimensions

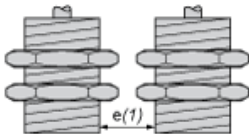


- (1) Adjustment potentiometer
(2) LED

Setting-up

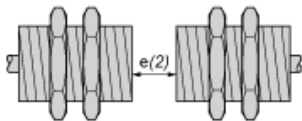
Minimum Mounting Distances (mm)

Side by side



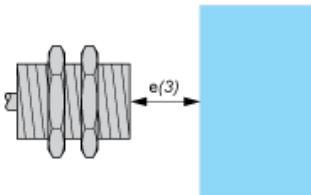
$e(1) \geq 0$

Face to face



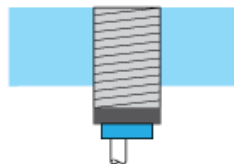
$e(2) \geq 4.4$

Facing a metal object



$e(3) \geq 4$

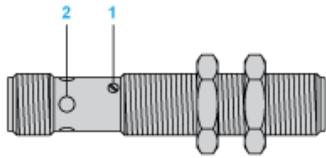
Mounted in support



Fixing nut tightening torque: 10 N.m

Adjustment

Sensitivity Adjustment

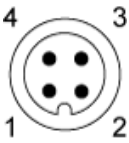


- (1) Adjustment potentiometer
- (2) LED

Wiring Diagram

Connector

M12 connector



4-wire DC, PNP NO + NC Output, M12

