

# XT112S1NAL2

capacitive sensor - XT1 - cylindrical M12 - stainless steel - Sn 2mm - cable 2m



## 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	50 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	3-wire
[Sn] nominal sensing distance	0.08 in (2 mm)
Discrete output function	1 NO
Output circuit type	DC
Discrete output type	NPN
Electrical connection	Cable
Cable length	6.56 ft (2 m)
[Us] rated supply voltage	24 V DC reverse polarity protection
Maximum delay response	5 ms
IP degree of protection	IP67 IEC 60529 IP67 IEC 60947-5-2

## Complementary

ISO thread	M12 x 1
Detection face	Frontal
[Sa] assured operating distance	0.00...0.06 in (0...1.44 mm)
Adjustment zone	0.02...0.20 in (0.5...5 mm)
Differential travel	< 0.2 x Sr
Repeat accuracy	< 0.1 x Sr
Wire insulation material	PVC
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	1.46 in (37 mm)

Length	1.97 in (50 mm)
Net Weight	0.15 lb(US) (0.07 kg)

## Environment

Standards	EN/IEC 60947-5-2
Product certifications	CETLus
Ambient air temperature for operation	-13...158 °F (-25...70 °C)
Vibration resistance	10 gn 1 mm 10...55 Hz)IEC 60068-2-6
Shock resistance	30 gn 11 ms IEC 60068-2-27
Resistance to electrostatic discharge	4 KV contact IEC 61000-4-2 8 kV air IEC 61000-4-2
Resistance to electromagnetic fields	2.74 V/m (3 V/m) IEC 61000-4-3
Resistance to fast transients	2 kV IEC 61000-4-4

## Ordering and shipping details

Category	22490 - SENSORS-ULTRASONIC (XX5,6)
Discount Schedule	DS2
GTIN	03389119025799
Nbr. of units in pkg.	1
Package weight(Lbs)	0.3 lb(US) (0.14 kg)
Returnability	No
Country of origin	DE

## Packing Units

Unit Type of Package 1	PCE
Package 1 Height	0.47 in (1.2 cm)
Package 1 width	5.91 in (15 cm)
Package 1 Length	8.27 in (21 cm)
Unit Type of Package 2	S02
Number of Units in Package 2	70
Package 2 Weight	11.81 lb(US) (5.358 kg)
Package 2 Height	5.91 in (15 cm)
Package 2 width	11.81 in (30 cm)
Package 2 Length	15.75 in (40 cm)

## Offer Sustainability

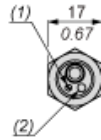
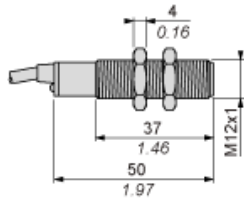
California proposition 65	WARNING: This product can expose you to chemicals including: Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, and Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>
REACH Regulation	<a href="#">REACH Declaration</a>
EU RoHS Directive	Compliant <a href="#">EU RoHS Declaration</a>
Mercury free	Yes
RoHS exemption information	<a href="#">Yes</a>

## Contractual warranty

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

## Dimensions

$\frac{\text{mm}}{\text{in.}}$

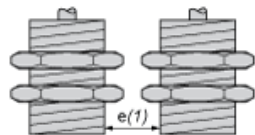


- (1) Adjustment potentiometer
- (2) LED

## Setting-up

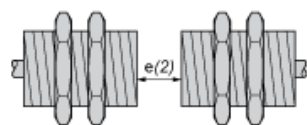
### Minimum Mounting Distances (mm)

Side by side



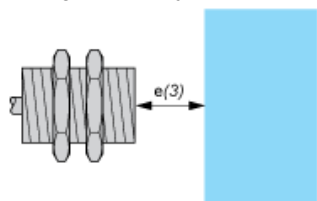
$e(1) \geq 0$

Face to face



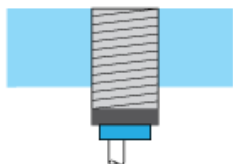
$e(2) \geq 4.4$

Facing a metal object



$e(3) \geq 4$

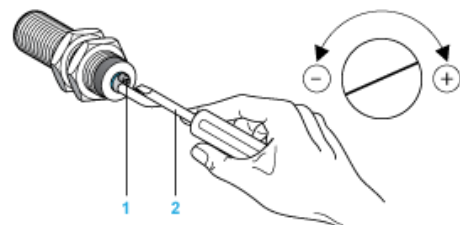
Mounted in support



Fixing nut tightening torque: 10 N.m

## Adjustment

### Sensitivity Adjustment



- (1) Adjustment potentiometer
- (2) Screwdriver (included with sensor)

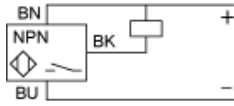
---

## Wiring Diagram

---

### Pre-cabled

3-wire DC, NPN NO Output, Pre-cabled



(BU) Blue  
(BN) Brown  
(BK) Black