Product data sheet Characteristics

XT218A1PCM12

capacitive sensor - XT1 - cylindrical M18 - plastic - Sn 8 mm - 12..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	XT2
Sensor design	Cylindrical M18
Size	78 mm
Body type	Fixed
Detector flush mounting acceptance	Non flush mountable
Material	Plastic
Enclosure material	Plastic
Type of output signal	Discrete
Wiring technique	4-wire
[Sn] nominal sensing distance	0.31 in (8 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	1224 V DC reverse polarity protection
Maximum delay response	15 ms
IP degree of protection	IP67 double insulation IEC 60529

Complementary

Complementary	
ISO thread	M18 x 1
Detection face	Frontal
[Sa] assured operating distance	0.000.23 in (05.8 mm)
Adjustment zone	0.000.47 in (012 mm)
Differential travel	< 120 % Sr
Repeat accuracy	< 5 % Sr
Status LED	Output state indication 1 LED yellow)
Supply voltage limits	1030 V DC
Maximum residual current	0.1 mA open state
Protection type	Short-circuit protection
Switching frequency	<= 200 Hz
Maximum voltage drop	<2.5 V closed)
Current consumption	< 25 mA
Maximum delay first up	100 ms
Maximum delay recovery	15 ms
Maximum switching current	400 mA
Marking	CE
Setting-up	Sensitivity by potentiometer
Threaded length	1.85 in (47 mm)
Length	3.07 in (78 mm)
Net weight	0.17 lb(US) (0.075 kg)

Environment

Standards	EN/IEC 60947-5-2	
Product certifications	CULus	
Ambient air temperature for operation	14140 °F (-1060 °C)	
Vibration resistance	10 gn 1 mm 1055 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

22490 - SENSORS-ULTRASONIC (XX5,6)	
DS2	
00785901467717	
1	
0.1 lb(US) (0.05 kg)	
Yes	
CN	
	DS2 00785901467717 1 0.1 lb(US) (0.05 kg) Yes

Packing Units

Package 1 Height	0.300 dm
Package 1 width	0.500 dm
Package 1 Length	1.000 dm

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 www.P65Warnings.ca.gov
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EVEL RoHS
Toxic heavy metal free	Yes
Mercury free	Yes
RoHS exemption information	₫Yes

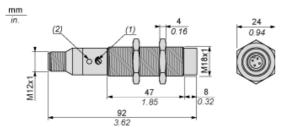
Contractual warranty

Warranty	18 months	

Product data sheet **Dimensions Drawings**

XT218A1PCM12

Dimensions

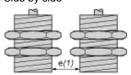


- (1) Adjustment potentiometer(2) LED

Setting-up

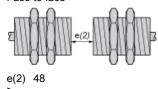
Minimum Mounting Distances (mm)

Side by side

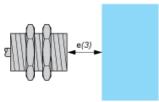


e(1) 40

Face to face



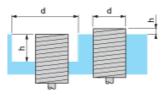
Facing a metal object



e(3) 24

>

Mounted in support



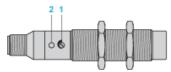
d ≥ 60

h ≥ 20

Fixing nut tightening torque: 3 N.m

Adjustment

Sensitivity Adjustment



- (1) Adjustment potentiometer
- (1) Adju

Product data sheet Connections and Schema

XT218A1PCM12

Wiring Diagram

Connector Version

M12 connector



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

