Product data sheet
Characteristics

XT218A1NAL2

capacitive sensor - XT1 - cylindrical M18 - plastic - Sn 8 mm - cable 2m

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	3-wire
[Sn] nominal sensing distance	8 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	12...24 V DC reverse polarity protection
Maximum delay response	15 ms
IP degree of protection	IP67 double insulation IEC 60529

Complementary

ISO thread	M18 x 1
Detection face	Frontal
[Sa] assured operating distance	0.00…0.23 in (0…5.8 mm)
Adjustment zone	0.00…0.47 in (0…12 mm)
Differential travel	< 1...20 % Sr
Repeat accuracy	< 5 % Sr
Wire insulation material	PVC

Status LED	Output state indication 1 LED yellow)
Supply voltage limits	10…30 V DC
Maximum residual current	100 mA open state
Protection type	Short-circuit protection
Switching frequency	<= 200 Hz
Maximum voltage drop	<2.5 V closed)
Current consumption	< 15 mA
Maximum delay first up	100 ms
Maximum delay recovery	15 ms
Maximum switching current	200 mA
Marking	CE
Setting-up	Sensitivity by potentiometer
Threaded length	1.85 in (47 mm)
Length	3.07 in (78 mm)
Net weight	0.33 lb(US) (0.15 kg)

Environment

Standards	EN/IEC 60947-5-2
Product certifications	CULus
Ambient air temperature for operation	14…140 °F (-10…60 °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/yd (3 V/m) IEC 61000-4-3
Resistance to fast transients	2 kV conforming to IEC 61000-4-4

Packing Units

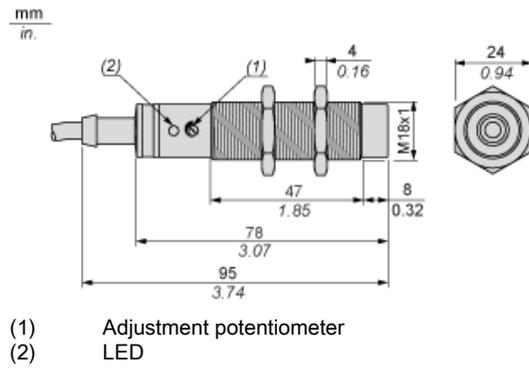|	
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	4.20 oz (119 g)
Package 1 Height	0.79 in (2 cm)
Package 1 width	5.51 in (14 cm)
Package 1 Length	5.31 in (13.5 cm)
Unit Type of Package 2	S02
Number of Units in Package 2	40
Package 2 Weight	10.49 lb(US) (4.76 kg)
Package 2 Height	5.91 in (15 cm)
Package 2 width	11.81 in (30 cm)
Package 2 Length	15.75 in (40 cm)

Offer Sustainability

REACh Regulation	REACh Declaration
REACh free of SVHC	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Toxic heavy metal free	Yes
Mercury free	Yes
RoHS exemption information	Yes

Contractual warranty

Warranty	18 months

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Dimensions

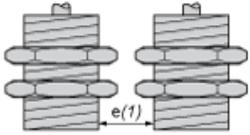(1)   Adjustment potentiometer
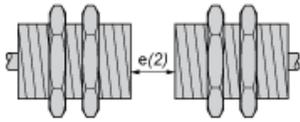(2)   LED

XT218A1NAL2

Setting-up

Minimum Mounting Distances (mm)

Side by side

e(1) ≥   40

Face to face

e(2) ≥   48

Facing a metal object
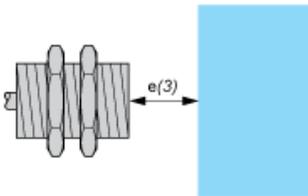
e(3) ≥   24

Mounted in support
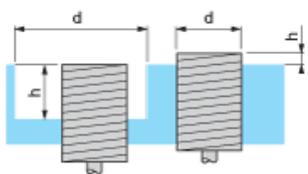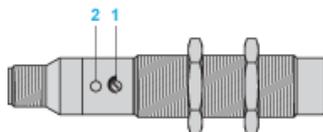

d ≥   60
h ≥   20

Fixing nut tightening torque: 3 N.m

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Adjustment

Sensitivity Adjustment

(1)   Adjustment potentiometer
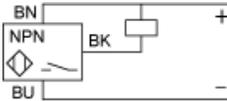(2)   LED

Wiring Diagram

Pre-cabled

3-wire DC, NPN NO Output

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