

Product data sheet

XT218A1NAL2

Capacitive sensor, XT, M18, plastic, Sn 8 mm, NPN, NO, cable 2 m, 12...24 VDC, non-flush, 3 wires

Main

Sensor name	XT2
Sensor type	Capacitive proximity sensor
Sensor design	Cylindrical M18
Product specific application	Detection of insulated or conductive materials
ETIM classification	ETIM 9 - EC002715 - Capacitive proximity switch
Body type	Fixed
Material	Plastic
Enclosure material	Plastic
[Sn] nominal sensing distance	8 mm
Wiring technique	3-wire
Detector flush mounting acceptance	Non flush mountable
Delay response	15 ms
ISO thread	M18 x 1
Product certifications	cULus
Marking	CE
Standards	IEC 60947-5-2
Indivisible sale quantity	1

Complementary

Sensing range	> 4...8 mm
Repeat accuracy	< 5 % Sr
Electrical connection	Cable
Cable length	2 m
Wire insulation material	PVC
Supply voltage limits	10-30 V DC
[Us] rated supply voltage	12...24 V DC with reverse polarity protection
Maximum switching current	200 mA
Voltage drop	<2.5 V (closed)
Current consumption	< 15 mA

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein.
This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications.
It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof.
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Setting-up	Sensitivity by potentiometer
Status LED	Output state indication: 1 LED (yellow)
Output circuit type	DC
Type of output signal	Discrete
Length of developed helical travel	78 mm
Detection face	Frontal
Discrete output function	1 NO
Switching frequency	<= 200 Hz
Differential travel	< 1...20 % Sr
Delay first up	100 ms
Delay recovery	15 ms
Residual current	100 mA open state
Threaded length	47 mm
Size	78 mm
Product weight	0.15 kg

Environment

IP degree of protection	IP67 double insulation conforming to IEC 60529
Shock resistance	30 gn for 11 ms conforming to IEC 60068-2-27
Vibration resistance	10 gn amplitude = 1 mm (f = 10-55 Hz) conforming to IEC 60068-2-6
Resistance to fast transients	2 kV conforming to IEC 61000-4-4
Resistance to electromagnetic fields	3 V/m conforming to IEC 61000-4-3
Resistance to electrostatic discharge	4 kV contact conforming to IEC 61000-4-2, 8 kV air conforming to IEC 61000-4-2

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

Warranty

Warranty	18 months

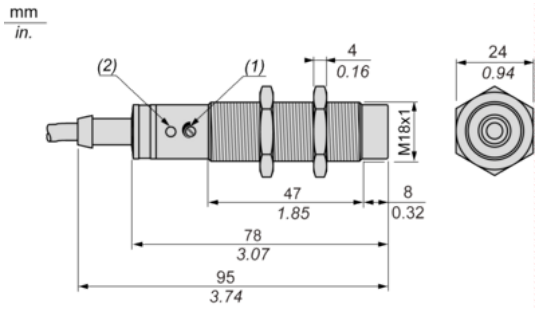
Packing Units

Country of origin	CN (China)
Unit type of package 1	PCE
Number of units in package 1	1
New Package 1 GTIN-13	3666916020159
Package 1 height	2.5 cm
Package 1 width	21 cm

Package 1 length	15 cm
Package 1 weight	0.14 kg
Unit type of package 2	S02
Number of units in package 2	40
New Package 2 GTIN 14	13666916020156
Package 2 height	15 cm
Package 2 width	30 cm
Package 2 length	40 cm
Package 2 weight	4.76 kg
New Package 3 GTIN 14	23666916020153

Technical Drawings

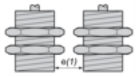
Dimensions



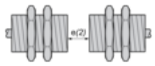
(1)
(2)

Setting-up

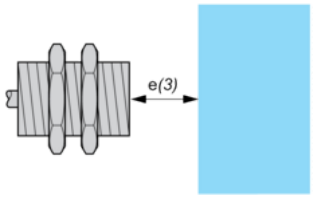
Minimum Mounting Distances (mm)



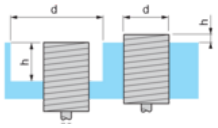
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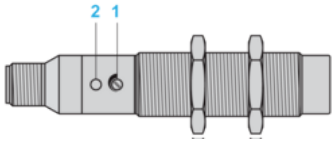
Minimum Mounting Distances (mm)



Side by side
e(1) ≥
Face to face
e(2) ≥
Facing a metal object
e(3) ≥
Mounted in support
d ≥
h ≥
Fixing nut tightening torque: 3 N.m

Adjustment

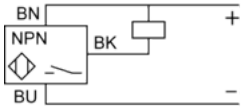
Sensitivity Adjustment



(1)
(2)

Wiring Diagram

Pre-cabled



3-wire DC, NPN NO Output
(BU)
(BN)
(BK)