

Product datasheet

Specifications



capacitive sensor - XT1 - cylindrical
Ø 32 mm - plastic - Sn 20 mm -
cable 2 m

XT232A1FAL2

Main

Range of product	Telemecanique Capacitive proximity sensors XT
Sensor type	Capacitive proximity sensor
Product specific application	Detection of insulated or conductive materials
Sensor name	XT2
Sensor design	Cylindrical Ø 32 mm plain
Size	80 mm
Body type	Fixed
Detector flush mounting acceptance	Non flush mountable
Material	Plastic
Enclosure material	Plastic
Type of output signal	Discrete
Wiring technique	2-wire
[Sn] nominal sensing distance	20 mm
Discrete output function	1 NO
Output circuit type	AC
Electrical connection	Cable
Cable length	2 m
[Us] rated supply voltage	24...240 V AC 50...60 Hz 24 V DC
Maximum delay response	30 ms
IP degree of protection	IP67 double insulation conforming to IEC 60529

Complementary

Detection face	Frontal
[Sa] assured operating distance	0...15 mm
Adjustment zone	0...22 mm
Differential travel	< 1...20 % Sr
Repeat accuracy	< 5 % Sr
Wire insulation material	PVC

Disclaimer: 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

Status LED	Output state indication: 1 LED (yellow)
Supply voltage limits	20...265 V AC
Switching frequency	<= 15 Hz
Maximum voltage drop	<10 V (closed)
Current consumption	< 4 mA
Maximum delay first up	200 ms
Maximum delay recovery	30 ms
Maximum switching current	300 mA
Marking	CE
Setting-up	Sensitivity by potentiometer
Length	80 mm
Net weight	0.4 kg

Environment

Standards	EN/IEC 60947-5-2
Product certifications	cULus
Ambient air temperature for operation	-10...60 °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

Packing Units

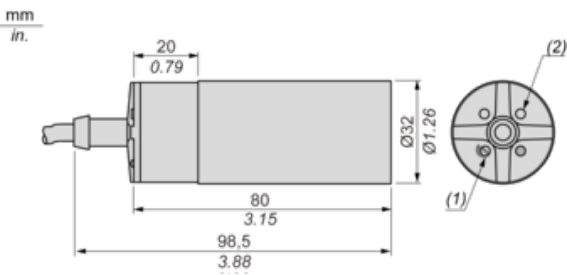
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	208.0 g
Package 1 Height	4 cm
Package 1 width	13 cm
Package 1 Length	14 cm
Unit Type of Package 2	S02
Number of Units in Package 2	25
Package 2 Weight	5.635 kg
Package 2 Height	15 cm
Package 2 width	30 cm
Package 2 Length	40 cm

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

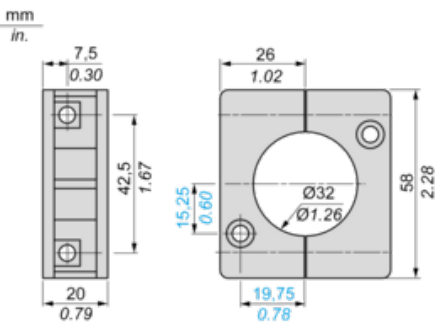
Toxic heavy metal free	Yes
Mercury free	Yes
RoHS exemption information	Yes
Contractual warranty	
Warranty	18 months

Dimensions



- (1) Adjustment potentiometer
(2) LED

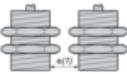
Mounting Accessory Included



Setting-up

Minimum Mounting Distances (mm)

Side by side



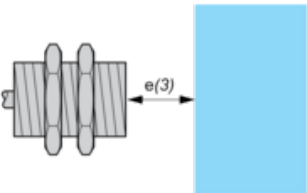
$e(1) \geq 65$

Face to face



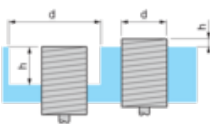
$e(2) \geq 120$

Facing a metal object



$e(3) \geq 60$

Mounted in support

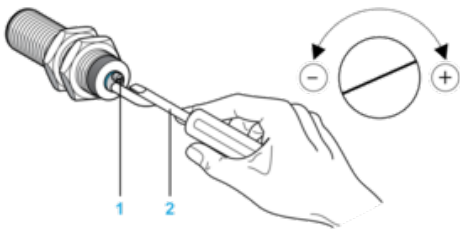


$d \geq 100$

$h \geq 30$

Adjustment

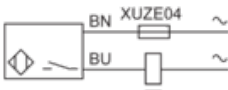
Sensitivity Adjustment



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

Wiring Diagram

Pre-cabled
2-wire AC NO Output



(BU) Blue
(BN) Brown