Product data sheet
Characteristics

XT130B1FAL2

Capacitive proximity sensors XT, cylindrical M30, brass, Sn 10 mm, cable 2 m

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	XT1
Sensor design	Cylindrical M30
Size	70 mm
Body type	Fixed
Detector flush mounting acceptance	Flush mountable
Material	Metal
Enclosure material	Nickel plated brass
Type of output signal	Discrete
Wiring technique	2-wire
[Sn] nominal sensing distance	10 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
Maximum delay response	20 ms
IP degree of protection	IP67 conforming to IEC 60529 IP67 conforming to IEC 60947-5-2

Complementary

ISO thread	M30 x 1.5
Detection face	Frontal
[Sa] assured operating distance	0…7.2 mm
Adjustment zone	2…15 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	20…264 V AC
Maximum residual current	5 mA open state
Switching frequency	<= 25 Hz
Maximum voltage drop	<6 V (closed)
Current consumption	< 3 mA
Maximum delay first up	100 ms
Maximum delay recovery	20 ms
Maximum switching current	330 mA
Marking	CE
Setting-up	Sensitivity by potentiometer
Threaded length	55 mm
Length	70 mm
Net weight	0.27 kg

Environment

Standards	IEC 60947-5-2
Product certifications	cETLus
Ambient air temperature for operation	-25…70 °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

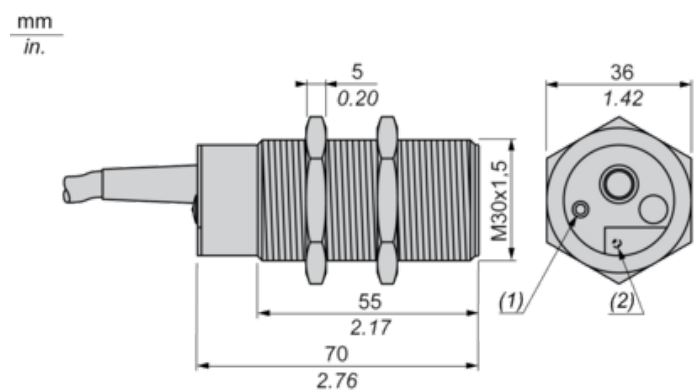|	
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	3.8 cm
Package 1 Width	15 cm
Package 1 Length	15.1 cm
Package 1 Weight	288 g

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
For all Reach Rohs enquiries contact us at	sustainability@tesensors.com

Contractual warranty

Warranty	18 months

Telemecanique
Sensors

XT130B1FAL2

Dimensions

$\dfrac{mm}{in.}$

$\dfrac{5}{0.20}$

$\dfrac{36}{1.42}$

M30x1,5

$\dfrac{55}{2.17}$
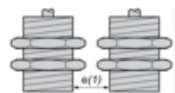
$\dfrac{70}{2.76}$

(1)

(2)

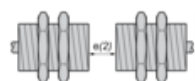(1) LED

(2) Potentiometer beneath protective flap

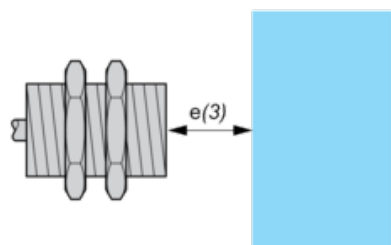## Setting-up

Minimum Mounting Distances (mm)
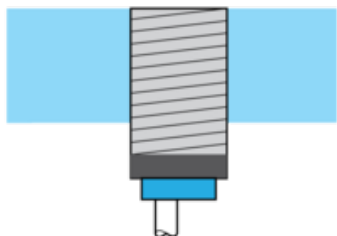
Side by side

e(1) ≥ 0

Face to face
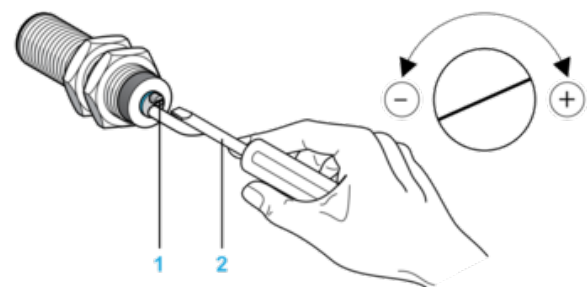

e(2) ≥ 22

Facing a metal object

e(3) ≥ 20

Mounted in support

Fixing nut tightening torque: 40 N.m

Adjustment

Sensitivity Adjustment

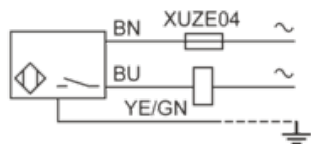(1) Adjustment potentiometer
(2) Screwdriver (included with sensor)

Wiring Diagram

Pre-cabled

2-wire AC NO Output

(BU) Blue
(BN) Brown
(YE/GN) Yellow/Green