Product data sheet
Characteristics

XT530B1FBL2
Telemecanique Capacitive proximity sensors XT, cylindrical M30, brass, Sn 10mm, 24..240VAC,cable 2 m



Main

Range of product	Telemecanique Capacitive proximity sensors XT
Product or component type	Sensor
Sensor type	Capacitive proximity sensor
Product specific application	Detection of insulated or conductive materials
Sensor name	XT5
Sensor design	Cylindrical M30
Size	64 mm
Body type	Fixed
Detector flush mounting acceptance	Flush mountable
Material	Nickel copper alloy
Enclosure material	Nickel plated brass
Type of output signal	Discrete
Wiring technique	2-wire
[Sn] nominal sensing distance	10 mm
Discrete output function	1 NC
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	30 ms
IP degree of protection	IP67 conforming to IEC 60529 IP65 conforming to IEC 60529

Complementary

ISO thread	M30 x 1.5
Detection face	Frontal
Front material	PBT
[Sa] assured operating distance	0…7.2 mm
Adjustment zone	3…15 mm
Differential travel	< 1...20 % Sr
Repeat accuracy	< 5 % Sr
Wire insulation material	PVC
Status LED	Supply state indication: 1 LED (green) Output state indication: 1 LED (yellow)
Supply voltage limits	20…264 V AC
Maximum residual current	5 mA open state
Switching frequency	<= 10 Hz
Maximum voltage drop	<10 V (closed)
Current consumption	< 3 mA
Maximum delay first up	300 ms
Maximum delay recovery	30 ms
Maximum switching current	300 mA

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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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Marking	CE UKCA
Setting-up	Sensitivity by potentiometer
Threaded length	53 mm
Length	64 mm
Net weight	0.27 kg

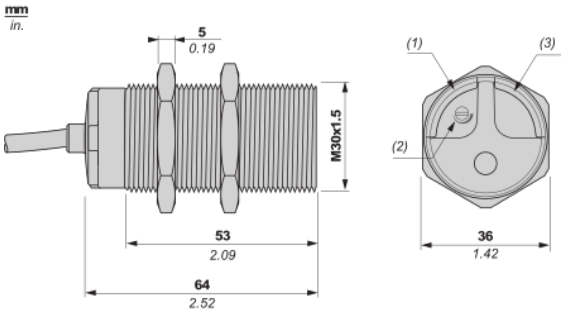
Environment

Standards	EN/IEC 60947-5-2
Product certifications	cULus
Ambient air temperature for operation	-25…70 °C
Electrical insulation class	Class I
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	10 V/m conforming to IEC 61000-4-3
Resistance to fast transients	2 kV conforming to IEC 61000-4-4

Offer Sustainability

EU RoHS Directive	Not applicable, out of EU RoHS legal scope

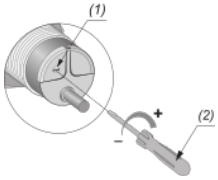
Dimensions



(1) Output status LED (yellow)
(2) Adjustment potentiometer (sensitivity)
(3) Power ON LED (green)

Mounting and Clearance

Sensitivity adjustment

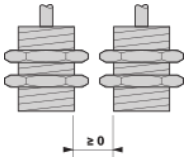


(1) Adjustment potentiometer
(2) Adjustment using suitable screwdriver (included with sensor)

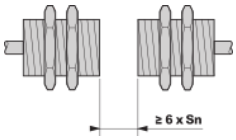
Mounting and Clearance

Minimum Mounting Distances

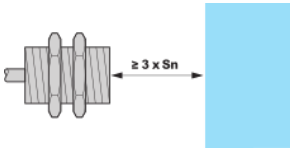
Side by side



Face to face



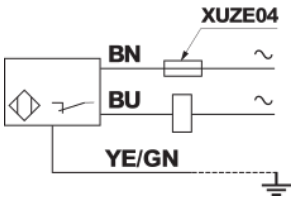
Facing a Metal Object



Connections and schema

Wiring diagram

2-wire AC, NC output, pre-cabled



BN: Brown
BU: Blue
YE/GN: Yellow/Green