

Product data sheet

XT530B1PCM12

Capacitive sensor, XT5, M30, brass, Sn 10 mm, PNP, 1NO+1NC, 24 VDC

Main

Sensor name	XT5
Sensor type	Capacitive proximity sensor
Product or component type	Sensor
Sensor design	Cylindrical M30
Product specific application	Detection of insulated or conductive materials
ETIM classification	ETIM 9 - EC002715 - Capacitive proximity switch
Body type	Fixed
Material	Metal
Front material	PBT
Enclosure material	Nickel plated brass
[Sn] nominal sensing distance	10 mm
Wiring technique	4-wire
Detector flush mounting acceptance	Flush mountable
Delay response	15 ms
ISO thread	M30 x 1.5
Product certifications	cULus
Marking	CE
Standards	IEC 60947-5-2 UL 61010-1
Indivisible sale quantity	1

Complementary

Sensing range	2...15 mm
Repeat accuracy	< 0.1 x Sr
Electrical connection	Male connector M12, 4 pins
Supply voltage limits	12-30 V DC
[Us] rated supply voltage	24 V DC with reverse polarity protection
Maximum switching current	200 mA
Electrical insulation class	Class III conforming to IEC 61140

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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Voltage drop	<2.5 V (closed)
Current consumption	< 15 mA
Setting-up	Sensitivity by potentiometer
Protection type	Short-circuit protection
Status LED	Output state indication: 1 LED (yellow), power status: 1 LED (green)
Output circuit type	DC
Type of output signal	Discrete
Length of developed helical travel	64 mm
Detection face	Frontal
Discrete output type	PNP
Discrete output function	1 NC + 1 NO
Switching frequency	<= 25 Hz
Differential travel	< 0.2 x Sr
Delay first up	300 ms
Delay recovery	15 ms
Residual current	0.1 mA open state
Threaded length	53 mm
Size	64 mm
Product weight	0.15 kg

Environment

IP degree of protection	IP67 conforming to IEC 60529, IP65 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

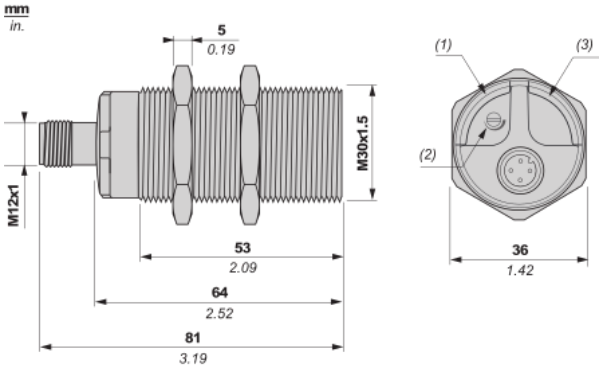
Country of origin	CN (China)
Unit type of package 1	PCE

Number of units in package 1	1
New Package 1 GTIN-13	3666916019894
Package 1 height	3 cm
Package 1 width	11 cm
Package 1 length	13 cm
Package 1 weight	0.15 kg
Unit type of package 2	S02
Number of units in package 2	60
New Package 2 GTIN 14	13666916019891
Package 2 height	15 cm
Package 2 width	30 cm
Package 2 length	40 cm
Package 2 weight	7.803 kg
New Package 3 GTIN 14	23666916019898

Technical Drawings

Dimensions

Dimensions

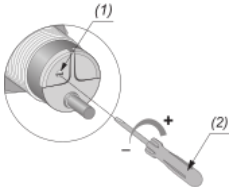


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(2)
(3)

Mounting and Clearance

Mounting and Clearance

Sensitivity adjustment

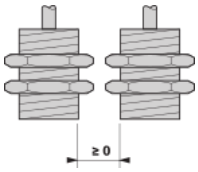


(1)
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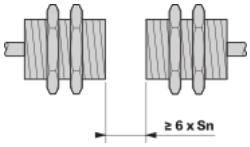
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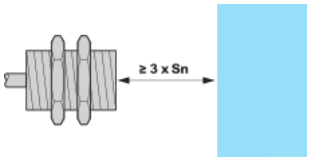
Minimum Mounting Distances



Minimum Mounting Distances



Minimum Mounting Distances

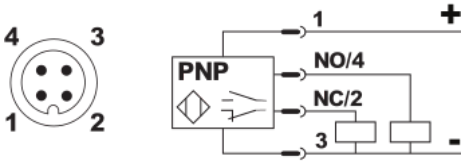


Side by side
Face to face
Facing a Metal Object

Connections and schema

Connections and schema

Wiring diagram



4-wire DC, PNP, NO + NC output, M12 connector