# XS512B1PBM12

Inductive proximity sensors XS, inductive sensor XS5 M12, L50mm, brass, Sn2mm, 12...24 VDC, M12



## Main

Range of product	Telemecanique Inductive proximity sensors XS	
Series name	General purpose	
Sensor type	Inductive proximity sensor	
Device application	-	
Sensor name	XS5	
Sensor design	Cylindrical M12	
Size	50 mm	
Body type	Fixed	
Detector flush mounting acceptance	Flush mountable	
Material	Metal	
Type of output signal	Discrete	
Wiring technique	3-wire	
[Sn] nominal sensing distance	2 mm	
Discrete output function	1 NC	
Output circuit type	DC	
Discrete output type	PNP	
Electrical connection	Male connector M12, 4 pins	
[Us] rated supply voltage	1224 V DC with reverse polarity protection	
Switching capacity in mA	<= 200 mA DC with overload and short-circuit protection	
IP degree of protection	IP67 conforming to IEC 60529 IP69K conforming to DIN 40050	

#### Complementary

Complementary		
Thread type	M12 x 1	
Detection face	Frontal	
Front material	PPS	
Enclosure material	Nickel plated brass	
Operating zone	01.6 mm	
Differential travel	115% of Sr	
Status LED	Output state: 1 LED (yellow)	
Supply voltage limits	1036 V DC	
Switching frequency	<= 5000 Hz	
Maximum voltage drop	<2 V (closed)	
Current consumption	<= 10 mA no-load	
Maximum delay first up	10 ms	
Maximum delay response	0.1 ms	
Maximum delay recovery	0.1 ms	
Marking	CE	
Threaded length	30 mm	
Length	50 mm	
Net weight	0.035 kg	

#### **Environment**

Product certifications	CSA[RETURN]UL
Ambient air temperature for operation	-2570 °C
Ambient air temperature for storage	-4085 °C
Vibration resistance	25 gn amplitude = +/- 2 mm (f = 1055 Hz) conforming to IEC 60068-2-6
Shock resistance	50 gn for 11 ms conforming to IEC 60068-2-27

## Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	4.200 cm
Package 1 Width	9.600 cm
Package 1 Length	6.500 cm
Package 1 Weight	27.000 g
Unit Type of Package 2	S02
Number of Units in Package 2	44
Package 2 Height	15 cm
Package 2 Width	30 cm
Package 2 Length	40 cm
Package 2 Weight	1.505 kg

## Offer Sustainability

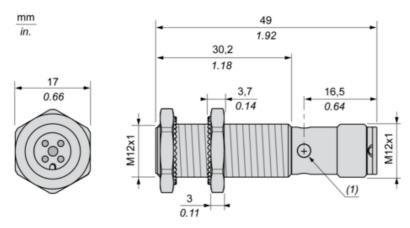
ustainable offer status Green Premium product	
Circularity Profile	<sup>™</sup> End of Life Information
California proposition 65	WARNING: This product can expose you to chemicals including: Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, and Di-isodecyl phthalate (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 m	onths



#### **Dimensions**

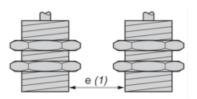


(1): LED

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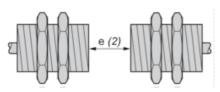
### Minimum Mounting Distances

#### Side by side

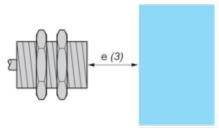


e (1)  $\geq$  4 mm/0.16 in.

#### Face to face



e (2) ≥ 24 mm/0.94 in. Facing a metal object



e (3)  $\geq$  6 mm/0.24 in.

# Product data sheet Connections and Schema

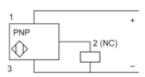
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### Wiring Schemes

#### M12 connector



#### PNP



1:(+)

2 : NC Output

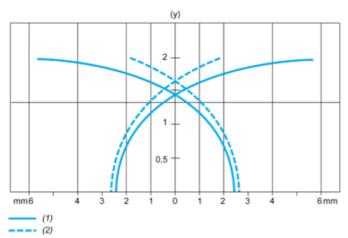
3:(-)

4 : Not connected

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#### **Performance Curves**

### Standard Steel Target: 12x12x1 mm



- (1) Pick-up points
- (2) Drop-out points (object approaching from the side)
- (y) Sensing distance in mm