

XS512B1DBM12

Inductive proximity sensors XS, inductive sensor XS5 M12, L62mm, brass, Sn2mm, 12...48 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	61 mm
Body type	Fixed
Detector flush mounting acceptance	Flush mountable
Material	Metal
Type of output signal	Discrete
Wiring technique	2-wire
[Sn] nominal sensing distance	2 mm
Discrete output function	1 NC
Output circuit type	DC
Electrical connection	4 pins M12 male connector
[Us] rated supply voltage	12...48 V DC
Switching capacity in mA	1.5...100 mA DC with overload and short-circuit protection
IP degree of protection	IP67 conforming to IEC 60529 IP69K conforming to DIN 40050

Complementary

Thread type	M12 x 1
Detection face	Frontal
Front material	PPS
Enclosure material	Nickel plated brass
Operating zone	0...1.6 mm
Differential travel	1...15% of Sr
Status LED	Output state: 1 LED (yellow)
Supply voltage limits	10...58 V DC
Maximum residual current	0.5 mA open state
Switching frequency	<= 4000 Hz
Maximum voltage drop	<4 V (closed)
Maximum delay first up	10 ms
Maximum delay response	0.2 ms
Maximum delay recovery	0.2 ms
Marking	CE
Threaded length	42 mm
Height	18 mm
Length	62 mm
Net weight	0.035 kg

Environment

Product certifications	CCC CSA UL
Ambient air temperature for operation	-25...70 °C
Ambient air temperature for storage	-40...85 °C
Vibration resistance	25 gn amplitude = +/- 2 mm (f = 10...55 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 Weight	40 g
Package 1 Height	4.2 cm
Package 1 width	6.7 cm
Package 1 Length	9.6 cm
Unit Type of Package 2	BAG
Number of Units in Package 2	1
Package 2 Weight	40 g
Package 2 Height	1.5 cm
Package 2 width	20 cm
Package 2 Length	15 cm
Unit Type of Package 3	S01
Number of Units in Package 3	11
Package 3 Weight	664 g
Package 3 Height	15 cm
Package 3 width	15 cm
Package 3 Length	40 cm

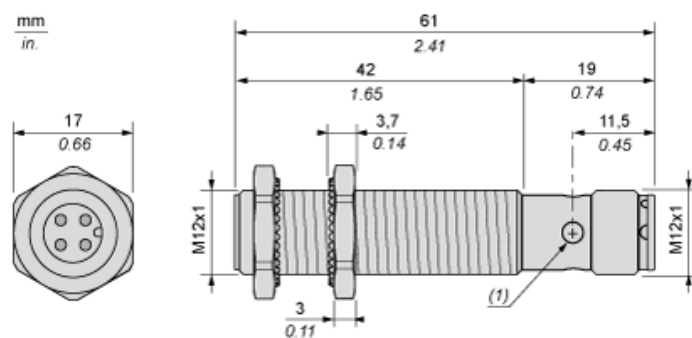
Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	 REACH Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)  EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	 Yes
Environmental Disclosure	 Product Environmental Profile
Circularity Profile	 End Of Life Information

Contractual warranty

Warranty	18 months
----------	-----------

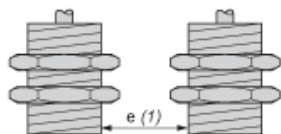
Dimensions



(1): LED

Minimum Mounting Distances

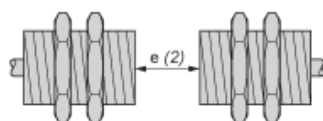
Side by side



e (1) 4 mm/0.16 in.

≥

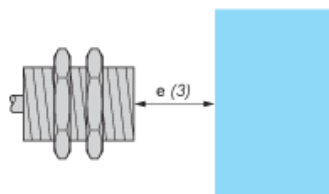
Face to face



e (2) 24 mm/0.94 in.

≥

Facing a metal object

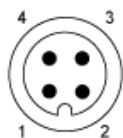


e (3) 6 mm/0.24 in.

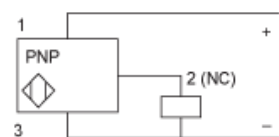
≥

Wiring Schemes

M12 connector



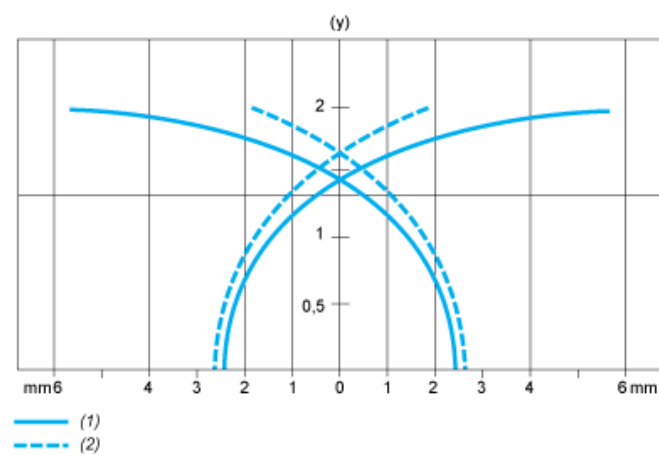
PNP



- 1 : (+)
- 2 : NC Output
- 3 : (-)
- 4 : Not connected

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