

Product data sheet

XS512B1NAM12

Inductive sensor, XS, M12, brass, Sn 2 mm, NPN, NO, M12 connector, L50 mm, 12...24 VDC

Main

Range of product	Telemecanique Inductive proximity sensors XS
Series name	General purpose
Sensor name	XS5
Sensor type	Inductive proximity sensor
Sensor design	Cylindrical M12
Device application	Not applicable
ETIM classification	ETIM 9 - EC002714 - Inductive proximity switch
Body type	Fixed
Material	Metal
Front material	PPS
Enclosure material	Nickel plated brass
[Sn] nominal sensing distance	2 mm
Wiring technique	3-wire
Detector flush mounting acceptance	Flush mountable
Delay response	0.1 ms
Thread type	M12 x 1
Product certifications	CSA UL
Marking	CE
Indivisible sale quantity	1

Complementary

Sensing range	> 0...2.5 mm
Electrical connection	Male connector M12, 4 pins
Supply voltage limits	10-36 V DC
[Us] rated supply voltage	12...24 V DC with reverse polarity protection
Switching capacity in mA	<= 200 mA DC with overload and short-circuit protection
Voltage drop	<2 V (closed)
Current consumption	<= 10 mA no-load

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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Status LED	Output state: 1 LED (yellow)
Output circuit type	DC
Type of output signal	Discrete
Detection face	Frontal
Discrete output type	NPN
Discrete output function	1 NO
Switching frequency	<= 5000 Hz
Differential travel	1...15 % of Sr
Delay first up	10 ms
Delay recovery	0.1 ms
Threaded length	30 mm
Length	50 mm
Size	50 mm
Product weight	0.035 kg

Environment

IP degree of protection	IP67 conforming to IEC 60529, IP69K conforming to DIN 40050
Ambient air temperature for operation	-25...70 °C
Ambient air temperature for storage	-40...85 °C
Shock resistance	50 gn for 11 ms conforming to IEC 60068-2-27
Vibration resistance	25 gn amplitude = +/- 2 mm (f = 10-55 Hz) conforming to IEC 60068-2-6

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

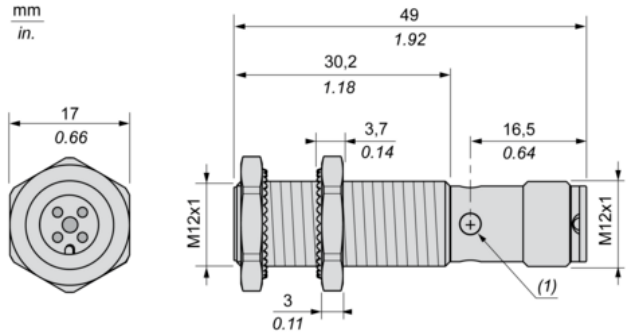
Packing Units

Country of origin	FR (France)
Unit type of package 1	PCE
Number of units in package 1	1
New Package 1 GTIN-13	3666916013526
Package 1 height	4.2 cm
Package 1 width	9.7 cm
Package 1 length	6.6 cm
Package 1 weight	0.035 kg

Unit type of package 2	S02
Number of units in package 2	44
New Package 2 GTIN 14	13666916013523
Package 2 height	15 cm
Package 2 width	30 cm
Package 2 length	40 cm
Package 2 weight	1.497 kg
Unit type of package 3	CAR
Number of units in package 3	1
New Package 3 GTIN 14	23666916013520
Package 3 height	6.6 cm
Package 3 width	4.2 cm
Package 3 length	9.7 cm
Package 3 weight	0.036 kg

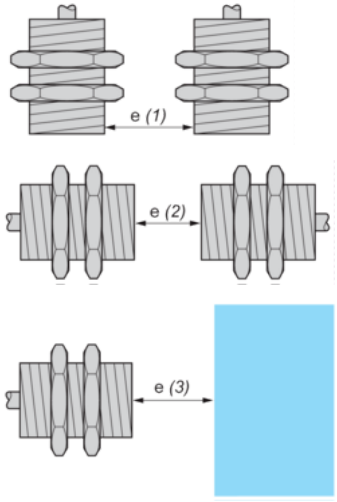
Technical Drawings

Dimensions



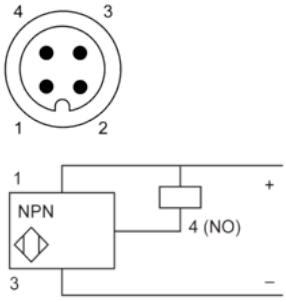
(1) :

Minimum Mounting Distances



Side by side
e (1) ≥
Face to face
e (2) ≥
Facing a metal object
e (3) ≥

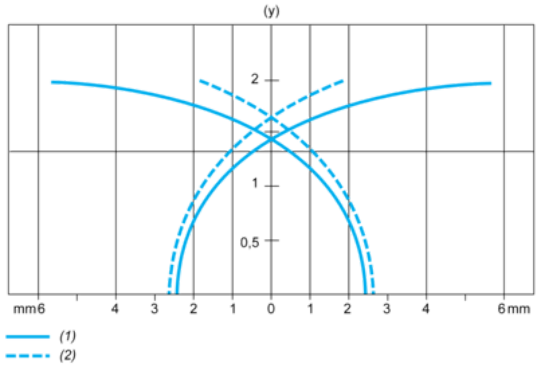
Wiring Schemes



M12 connector
NPN
1 :
2 :
3 :
4 :

Performance Curves

Standard Steel Target : 12x12x1 mm



(1)
(2)
(y)