Product data sheet
Characteristics

XS508B1NAM12

inductive sensor XS5 M8 - L45mm - stainless - Sn1.5mm - 12..24VDC - M12

Green Premium™

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 M8
Size	45 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	1.5 mm
Discrete output function	1 NO
Output circuit type	DC
Discrete output type	NPN
Electrical connection	Male connector M12, 4 pins
[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
IP degree of protection	IP67 conforming to IEC 60529

Complementary

Thread type	M12 x 1
Detection face	Frontal
Front material	PPS
Enclosure material	Nickel plated brass
Operating zone	0…1.2 mm
Differential travel	1...15% of Sr
Status LED	Output state: 1 LED (yellow)
Supply voltage limits	10…36 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	24 mm
Length	45 mm
Net weight	0.025 kg

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Environment

Product certifications	CSA[RETURN]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

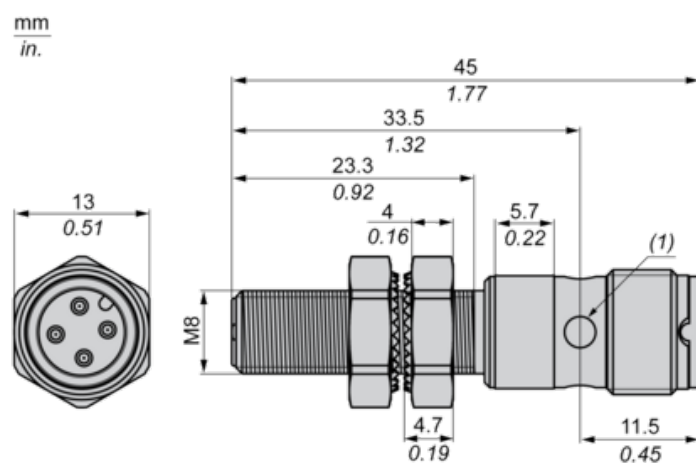|	
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	4.1 cm
Package 1 Width	9.5 cm
Package 1 Length	6.5 cm
Package 1 Weight	30 g

Offer Sustainability

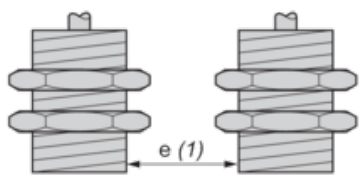|	
Sustainable offer status	Green Premium product
REACh Regulation	REACh Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
Mercury free	Yes
RoHS exemption information	Yes
Circularity Profile	End Of Life Information

Contractual warranty

Warranty	18 months

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Dimensions

mm
in.

13
0.51

M8

45
1.77

33.5
1.32

23.3
0.92

4
0.16

5.7
0.22

(1)

4.7
0.19

11.5
0.45

(1) LED

Minimum Mounting Distances

Side by side
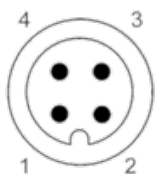
e (1) ≥ 3 mm/0.12 in.

Face to face

e (2) ≥ 18 mm/0.71 in.

Facing a metal object

e (3) ≥ 4.5 mm/0.18 in.

Wiring Schemes
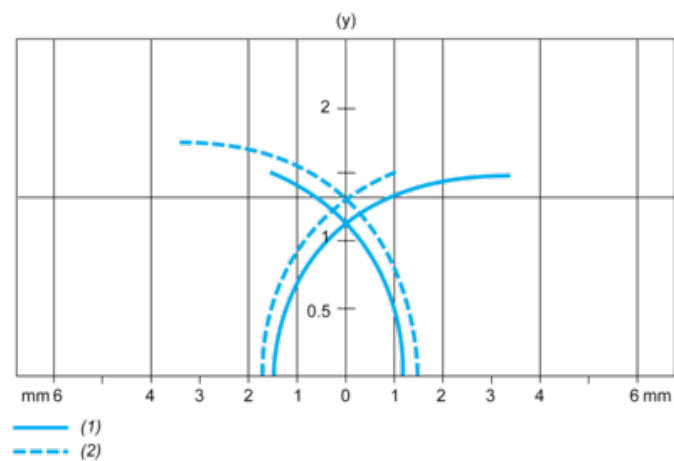
M12 connector

NPN
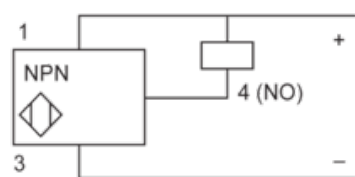
1 : (+)
2 : Not connected
3 : (-)
4 : NO Output

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Performance Curves

Standard Steel Target : 8x8x1 mm

(1) Pick-up points

(2) Drop-out points (object approaching from the side)

(y) Sensing distance in mm