

Product data sheet

Specifications



Inductive proximity sensors XS, inductive sensor XS5 M8, L42mm, stainless, Sn1.5 mm, 12...24 VDC, M8

XS508B1NBM8

Discontinued on: 31 May 2023

Discontinued

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	42 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 NC
Output circuit type	DC
Discrete output type	NPN
Electrical connection	Male connector M8, 3 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	M8 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	26 mm
Length	42 mm
Product weight	0.025 kg

Environment

Product certifications	UL CSA
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	29 g
Unit Type of Package 2	BAG
Number of Units in Package 2	1
Package 2 Height	1.2 cm
Package 2 Width	20 cm
Package 2 Length	15 cm
Package 2 Weight	29 g
Unit Type of Package 3	S01
Number of Units in Package 3	11
Package 3 Height	15 cm
Package 3 Width	15 cm
Package 3 Length	40 cm
Package 3 Weight	544 g

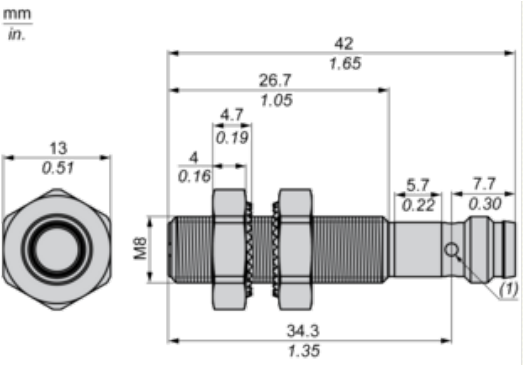
Offer Sustainability

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

Contractual warranty

Warranty	18 months
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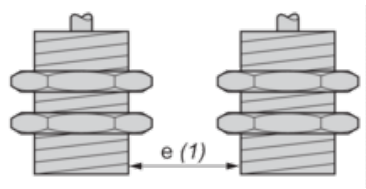
Dimensions



(1) LED

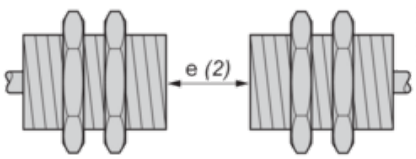
Minimum Mounting Distances

Side by side



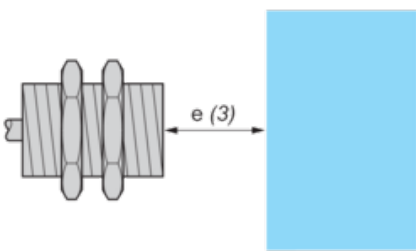
$e\ (1) \geq 3\text{ mm}/0.12\text{ in.}$

Face to face



$e\ (2) \geq 18\text{ mm}/0.71\text{ in.}$

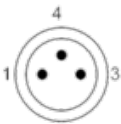
Facing a metal object



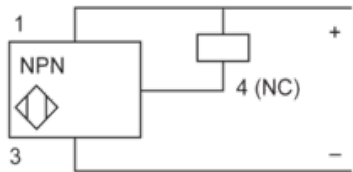
$e\ (3) \geq 4.5\text{ mm}/0.18\text{ in.}$

Wiring Schemes

M8 Connector

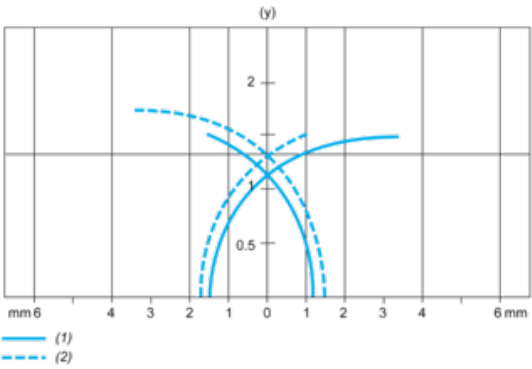


NPN



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

Recommended replacement(s)

XS508B1NBM8 is replaced by:

1x



inductive sensor XS6 M8 - L58mm - stainless - Sn2.5mm - 12..48VDC - M8
XS608B1NBM8