

Product data sheet Characteristics

XS508B1PBM8

inductive sensor XS5 M8 - L42mm - stainless - Sn1.5mm - 12..24VDC - M8





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	PNP	
Electrical connection	Male connector M8, 3 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	

Complementary

Thread type	M8 x 1
Detection face	Frontal
Front material	PPS
Enclosure material	Stainless steel 303
Operating zone	01.2 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	26 mm
Length	42 mm
Net weight	0.025 kg

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This documentation is not inhered as a substitute for and is not to be used for determining validability or integer 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 Neither Schweider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

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	1.0 cm
Package 1 Width	2.0 cm
Package 1 Length	9.0 cm
Package 1 Weight	18.0 g
Unit Type of Package 2	S02
Number of Units in Package 2	44
Package 2 Height	15.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	1.154 kg

Offer Sustainability

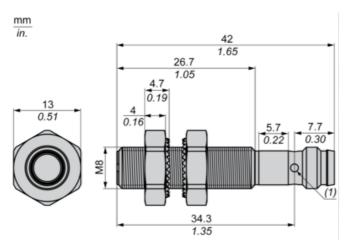
Sustainable offer status	Green Premium product
REACh Regulation	☑ REACh Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
Mercury free	Yes
RoHS exemption information	₫Yes
Circularity Profile	End Of Life Information

Contractual warranty

Warranty 1	18 months
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Dimensions

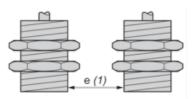


(1) LED

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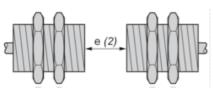
Minimum Mounting Distances

Side by side

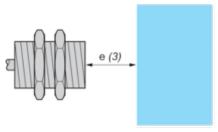


e (1) \geq 3 mm/0.12 in.

Face to face



e (2) ≥ 18 mm/0.71 in. Facing a metal object



e (3) ≥ 4.5 mm/0.18 in.

Product data sheet Connections and Schema

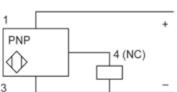
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Wiring Schemes

M8 Connector



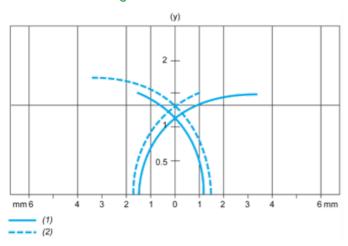
PNP



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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