Product datasheet

Specifications

Green Premium™

inductive sensor XS1 M8 - L50mm - stainless - Sn1.5mm - 12..24VDC - cable 2m

XS1M08PC410

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Main

Range of product	Telemecanique Inductive proximity sensors XS
Series name	General purpose
Sensor type	Inductive proximity sensor
Sensor name	XS1
Sensor design	Cylindrical M8
Size	51 mm
Body type	Fixed
Detector flush mounting acceptance	Flush mountable
Material	Stainless steel
Type of output signal	Discrete
Wiring technique	4-wire
[Sn] nominal sensing distance	1.5 mm
Discrete output function	1 NO + 1 NC
Output circuit type	DC
Discrete output type	PNP
Electrical connection	Cable
Cable length	2 m
[Us] rated supply voltage	12...24 V DC with reverse polarity protection
Switching capacity in mA	<= 200 mA 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	0…1.2 mm
Differential travel	1...15% of Sr

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Cable composition	4 x 0.08 mm²
Wire insulation material	PvR
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	0...10 mA no-load
Maximum delay first up	5 ms
Maximum delay response	0.1 ms
Maximum delay recovery	0.1 ms
Marking	CE
Threaded length	42 mm
Length	51 mm
Net weight	0.035 kg

Environment

|	
Product certifications	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	42.0 g
Package 1 Height	2.7 cm
Package 1 width	16.5 cm
Package 1 Length	7.9 cm
Unit Type of Package 2	S03
Number of Units in Package 2	44
Package 2 Weight	3.214 kg
Package 2 Height	30 cm
Package 2 width	30 cm
Package 2 Length	40 cm
Package 3 Height	30 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

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Mercury free	Yes
RoHS exemption information	Yes
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information

Contractual warranty

Warranty	18 months

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Dimensions

mm
in.

(1) LED
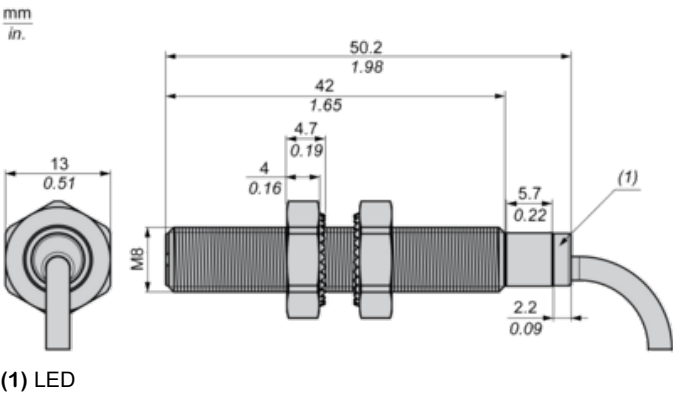
Minimum Mounting Distances

Side by side

e (1) ≥ 3 mm/0.12 in.

Face to face
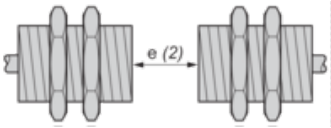
e (2) ≥ 18 mm/0.71 in.

Facing a metal object
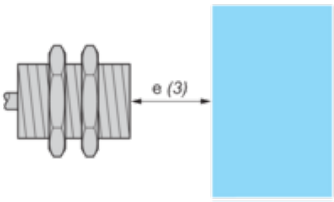
e (3) ≥ 4.5 mm/0.18 in.

Mounting
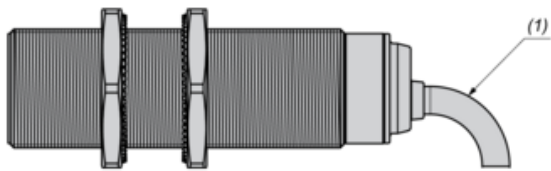
(1) Bending cable: 4 x external cable diameter

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Wiring Schemes

PNP 4-wire
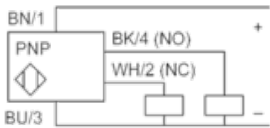
BU : Blue

BN : Brown

BK : Black

WH : White

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Performance Curves

Standard Steel Target : 8x8x1 mm
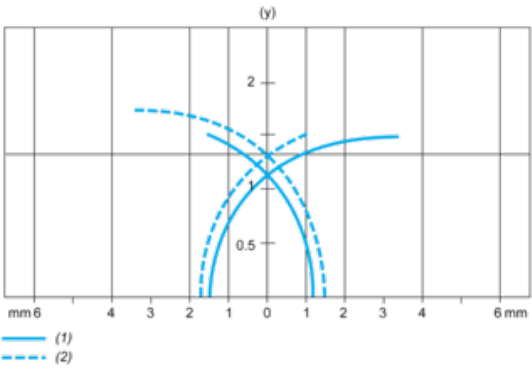
(1) Pick-up points

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

(y) Sensing distance in mm