Product data sheet

Specifications

Green Premium™

Inductive proximity sensors XS, inductive sensor XS2 M18, L51mm, brass, Sn16mm, 12...24 VDC, M12

XS218B4PAM12

Main

Range of product	Telemecanique Inductive proximity sensors XS
Series name	General purpose
Sensor type	Inductive proximity sensor
Device application	Mobile equipment
Sensor name	XS2
Sensor design	Cylindrical M18
Size	51 mm
Body type	Fixed
Detector flush mounting acceptance	Non flush mountable
Material	Metal
Type of output signal	Discrete
Wiring technique	3-wire
[Sn] nominal sensing distance	16 mm
Discrete output function	1 NO
Output circuit type	DC
Discrete output type	PNP
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 with overload and short-circuit protection
IP degree of protection	IP65 conforming to IEC 60529 IP67 conforming to DIN 40050 IP69K

Complementary

Thread type	M18 x 1
Detection face	Frontal
Front material	PPS
Enclosure material	Nickel plated brass
Sensing range	> 15...40 mm

Operating zone	0…12.8 mm
Differential travel	1...15% of Sr
Status LED	Output state: 1 LED (yellow)
Supply voltage limits	10…36 V DC
Switching frequency	<= 1000 Hz
Maximum voltage drop	<2 V (closed)
Current consumption	<= 10 mA no-load
Maximum delay first up	15 ms
Maximum delay response	0.3 ms
Maximum delay recovery	0.7 ms
Marking	CE
Threaded length	21 mm
Length	51 mm
Net weight	0.052 kg

Environment

Product certifications	CSA E2 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	6.8 cm
Package 1 Width	6.7 cm
Package 1 Length	9.6 cm
Package 1 Weight	52.0 g
Unit Type of Package 2	S01
Number of Units in Package 2	22
Package 2 Height	15.0 cm
Package 2 Width	15.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	1.144 kg
Unit Type of Package 3	S02
Number of Units in Package 3	44
Package 3 Height	15.0 cm
Package 3 Width	30.0 cm
Package 3 Length	40.0 cm
Package 3 Weight	2.743 kg

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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

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Dimensions

With M12 Connector
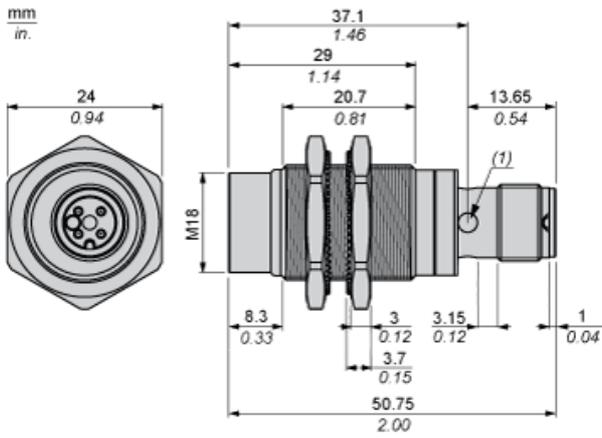
(1)   Yellow LED (Output state indication)

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Mounting and Clearance

Minimum Mounting Distances

Side by Side

≥ 120 mm
≥ 4.73 in.

Face to Face

≥ 200 mm
≥ 7.87 in.
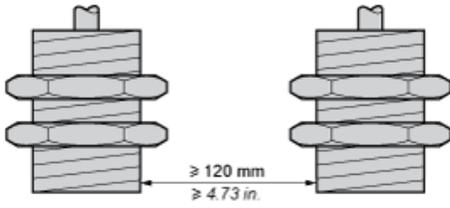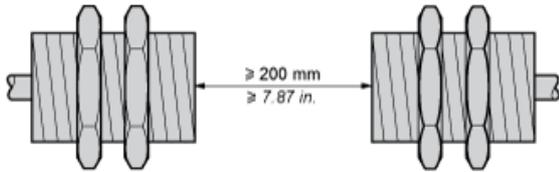
Facing a Metal Object

≥ 48 mm
≥ 1.89 in.
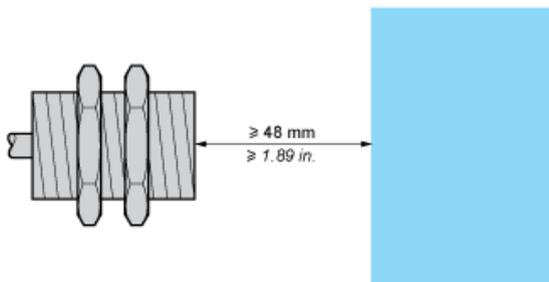
Mounted in a Metal Support

≥ 54 mm
≥ 2.13 in.

≥ 18 mm
≥ 0.71 in.

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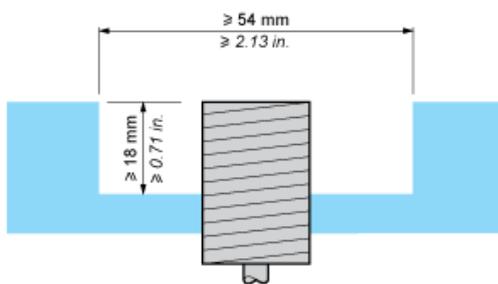
Connection and Schema

Wiring Schemes

M12 connector

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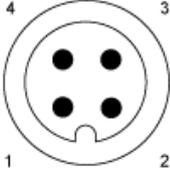
Connection and Schema

Wiring Schemes

PNP 3-wire
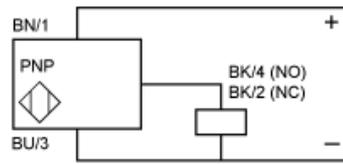
BN :	Brown
BK :	Black
BU :	Blue

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Performance Curves

Standard Steel Target: 24 x 24 x 1 mm

Operating zone: 0…12.8 mm
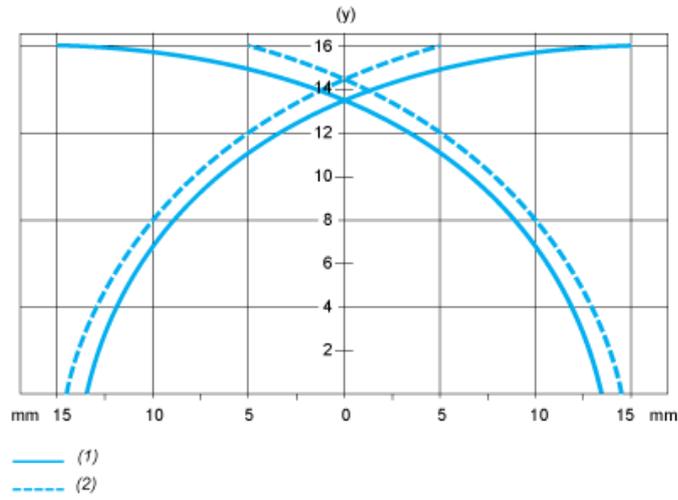
(y)	Sensing distance in mm
(1)	Pick-up points
(2)	Drop-out points (object approaching from the side)

Recommended replacement(s)