Product data sheet
Characteristics

XS218B4PAM12
inductive sensor XS2 M18 - L51mm - brass - Sn16mm - 12..24VDC - M12



Main

Range of product	OsiSense 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

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein.
This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these 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.
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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

Package 1 Weight	0.052 Kg
Package 1 Height	0.680 Dm
Package 1 width	0.670 Dm
Package 1 Length	0.960 Dm

Offer Sustainability

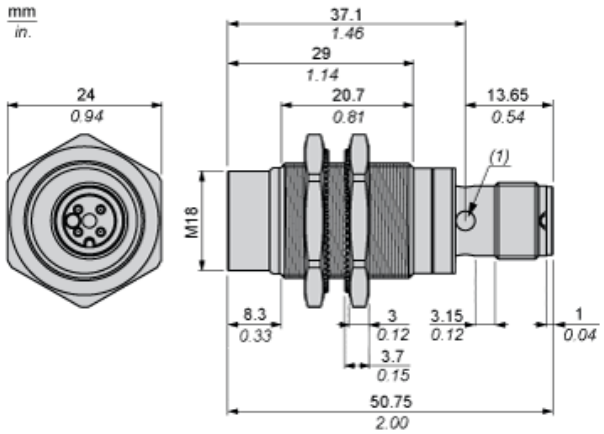
Sustainable offer status	Green Premium product
REACh Regulation	REACh Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
Environmental Disclosure	Product Environmental Profile
Circularity Profile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

Contractual warranty

Warranty	18 months

Dimensions

With M12 Connector

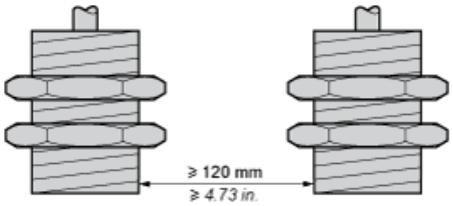


(1) Yellow LED (Output state indication)

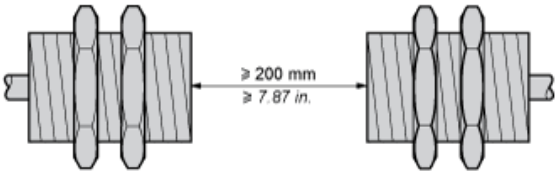
Mounting and Clearance

Minimum Mounting Distances

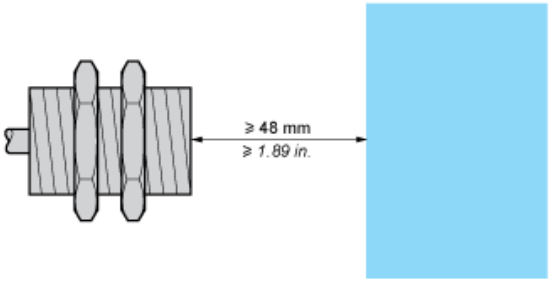
Side by Side



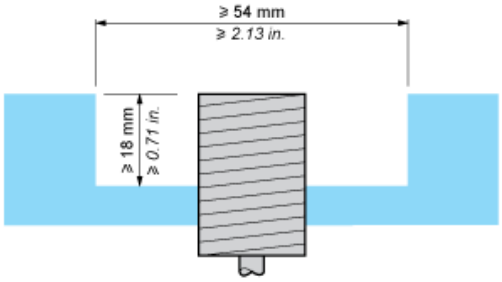
Face to Face



Facing a Metal Object



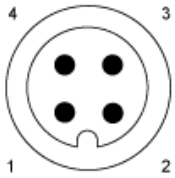
Mounted in a Metal Support



Connection and Schema

Wiring Schemes

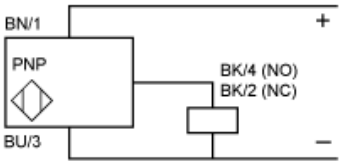
M12 connector



Connection and Schema

Wiring Schemes

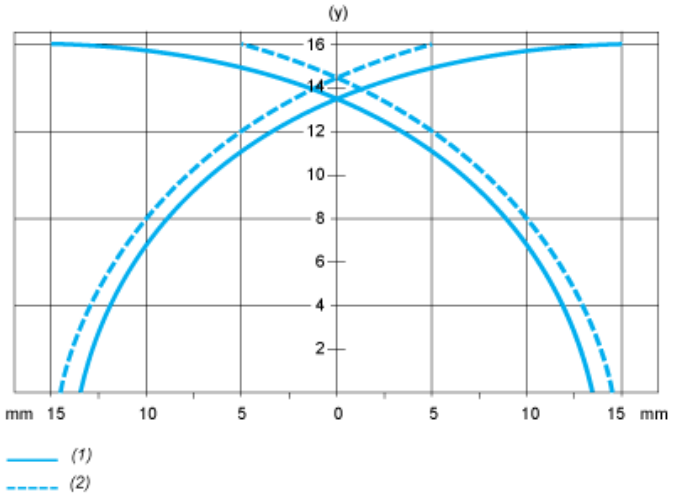
PNP 3-wire



BN : Brown
BK : Black
BU : Blue

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)

Product Life Status :	Commercialised