Product datasheet

Specifications



inductive sensor XS2 M30 - L68mm - brass - Sn15mm - 12..24VDC - M12

XS230BLNAM12

Discontinued on: 01 November 2020

Discontinued

XS230BLNAM12 has not been replaced. Please contact your customer care centre for more information.

Main

Range of product	Telemecanique Inductive proximity sensors XS
Series name	General purpose
Sensor type	Inductive proximity sensor
Sensor name	XS2
Sensor design	Cylindrical M30
Size	68 mm
Body type	Fixed
Enclosure material	Nickel plated brass
Type of output signal	Discrete
Wiring technique	3-wire
[Sn] nominal sensing distance	15 mm
Discrete output function	1 NO
Discrete output type	NPN
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	IP67 conforming to IEC 60529

Complementary

ISO thread	M30 x 1.5
Detection face	Frontal
Detector flush mounting acceptance	Non flush mountable
Material	Metal
Front material	PBT
Operating zone	0…12 mm
Differential travel	1...15% of Sr
Output circuit type	DC

Disclaimer: 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

Status LED	Output state: 1 LED (yellow)
Supply voltage limits	10…36 V DC
Switching frequency	<= 300 Hz
Maximum voltage drop	<2 V (closed)
Current consumption	<= 10 mA no-load
Maximum delay first up	15 ms
Maximum delay response	0.2 ms
Maximum delay recovery	1.4 ms
Marking	CE
Threaded length	34 mm
Length	68 mm
Net weight	0.085 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	128.0 g
Package 1 Height	4.2 cm
Package 1 width	6.5 cm
Package 1 Length	9.6 cm
Unit Type of Package 2	S02
Number of Units in Package 2	44
Package 2 Weight	6.087 kg
Package 2 Height	15 cm
Package 2 width	30 cm
Package 2 Length	40 cm

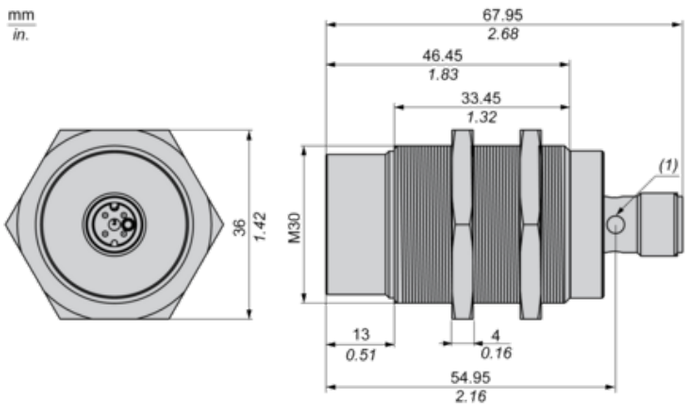
Offer Sustainability

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
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information

Contractual warranty

Warranty	18 months

Dimensions



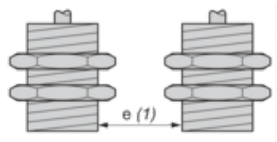
(1) LED

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Mounting and Clearance

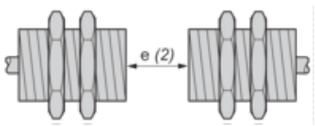
Minimum Mounting Distances

Side by side



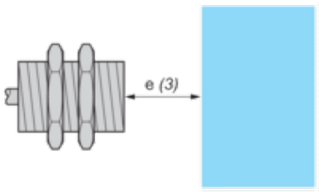
e (1) ≥ 60 mm/2.36 in.

Face to face



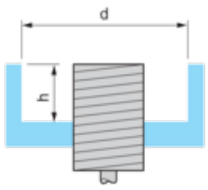
e (2) ≥ 180 mm/7.09 in.

Facing a metal object



e (3) ≥ 45 mm/1.77 in.

Mounted in a metal support



d ≥ 90 mm/3.54 in.

h ≥ 30 mm/1.18 in.

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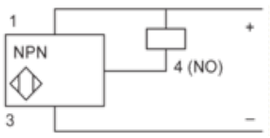
Connections and Schema

Wiring Schemes

M12 connector



NPN



1 : (+)

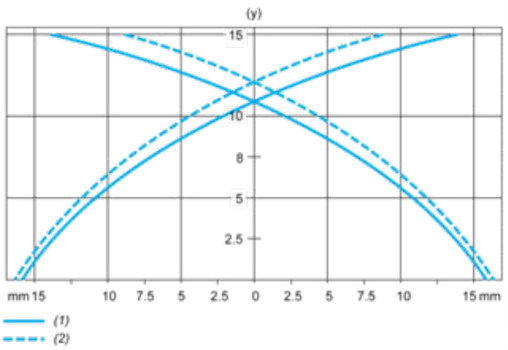
2 : Not connected

3 : (-)

4 : NO Output

Performance Curves

Standard Steel Target : 45x45x1 mm



(1) Pick-up points

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

(y) Sensing distance in mm