

XSPN04122EX

inductive sensor Namur - M12 - L38.5mm -
plastic - Sn4mm - 7..12VDC - cable 2m



Main

Range of product	OsiSense XS ATEX D
Series name	Application
Sensor type	Inductive proximity sensor
Device application	ATEX dust
Sensor name	XSP
Sensor design	Cylindrical M12
Size	38.5 mm
Body type	Fixed
Detector flush mounting acceptance	Non flush mountable
Material	Plastic
Enclosure material	Plastic
[Sn] nominal sensing distance	4 mm
Type of output signal	Discrete
Wiring technique	2-wire
Discrete output function	1 NC
Output circuit type	DC
Discrete output type	Namur
Electrical connection	Cable
Cable length	2 m
[Us] rated supply voltage	7...12 V DC
Switching capacity in mA	<= 1 mA
IP degree of protection	IP67 conforming to IEC 60529



Complementary

Thread type	M12 x 1
Detection face	Frontal
Front material	PPS
Sensing range	> 2.5...4 mm
Operating zone	0...3.2 mm
Cable composition	2 x 0.34 mm ²

Wire insulation material	PvR
Status LED	Output state: 1 LED (red)
Maximum residual current	3 mA open state
Switching frequency	<= 400 Hz
Marking	II1 D-Ex ia IIIC T85°C Da IP66/67
Threaded length	32.5 mm
Height	12 mm
Length	38.5 mm

Environment

Environmental characteristic	Hazardous location
Standards	EN/IEC 60079-11 EN/IEC 60079-0
Directives	94/9/EC - ATEX directive
Product certifications	INERIS 04ATEX0016X
Ambient air temperature for operation	-20...60 °C
Dust zone	Zone 20

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	105 g
Package 1 Height	13 cm
Package 1 width	4 cm
Package 1 Length	9.5 cm

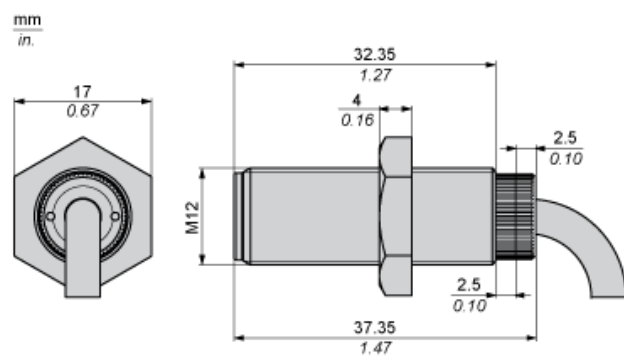
Offer Sustainability

REACH Regulation	 REACH Declaration
EU RoHS Directive	Not applicable, out of EU RoHS legal scope

Contractual warranty

Warranty	18 months
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Dimensions



Minimum Mounting Distances

Side by side



e (1) 4 mm/0.16 in.

≥

Face to face



e (2) 24 mm/0.94 in.

≥

Facing a metal object

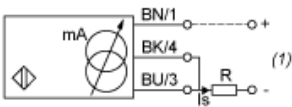


e (3) 6 mm/0.24 in.

≥

Wiring Schemes

2-Wire connection

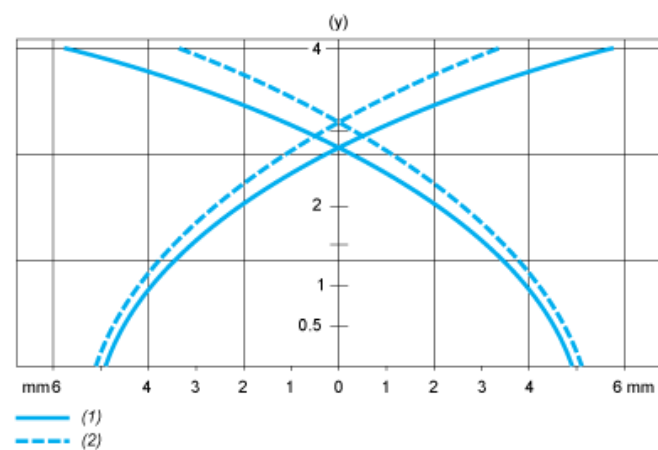


(1) Output current
BN : Brown
BK : Black
BU : Blue

	Output current	Load impedance value
12 V	4...20 mA	$R \leq 8.2 \, \Omega$
24 V	4...20 mA	$R \leq 470 \, \Omega$

Performance Curves

Standard Steel Target : 12x12x1 mm



- (1) Pick-up points
(2) Drop-out points (object approaching from the side)
(y) Sensing distance in mm