XS512B1MBL2

inductive sensor XS5 M12 - L53mm - brass - Sn2mm - 24..240VAC/DC - cable 2m

Green Premium™ Product

Main

Range of product	OsiSense XS
Series name	General purpose
Sensor type	Inductive proximity sensor
Device application	-
Sensor name	XS5
Sensor design	Cylindrical M12
Size	54 mm
Body type	Fixed
Detector flush mounting acceptance	Flush mountable
Material	Metal
Type of output signal	Discrete
Wiring technique	2-wire
[Sn] nominal sensing distance	2 mm
Discrete output function	1 NC
Output circuit type	AC/DC
Electrical connection	cable
Cable length	2 m
[Us] rated supply voltage	24...240 V AC/DC with reverse polarity protection
Switching capacity in mA	5...200 mA AC/DC
IP degree of protection	IP68 double insulation conforming to IEC 60529 IP69K conforming to DIN 40050

Complementary

Thread type	M12 x 1
Detection face	Frontal
Front material	PPS
Enclosure material	Nickel plated brass
Operating zone	0…1.6 mm
Differential travel	1...15% of Sr
Cable composition	2 x 0.34 mm²
Wire insulation material	PvR
Status LED	Output state: 1 LED (yellow)
Supply voltage limits	20…264 V AC/DC
Maximum residual current	0.8 mA open state
Switching frequency	<= 1000 Hz DC <= 25 Hz AC
Maximum voltage drop	<5.5 V (closed)
Maximum delay first up	20 ms
Maximum delay response	0.5 ms
Maximum delay recovery	0.2 ms
Marking	CE
Threaded length	42 mm
Height	12 mm

Length	53 mm
Net weight	0.075 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

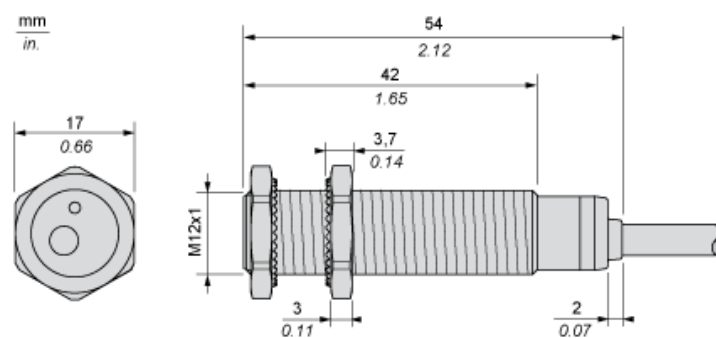|	
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	74 g
Package 1 Height	3.5 cm
Package 1 width	12.2 cm
Package 1 Length	10.8 cm
Unit Type of Package 2	BAG
Number of Units in Package 2	1
Package 2 Weight	95 g
Package 2 Height	2 cm
Package 2 width	20 cm
Package 2 Length	15 cm
Unit Type of Package 3	S02
Number of Units in Package 3	22
Package 3 Weight	1.884 kg
Package 3 Height	15 cm
Package 3 width	30 cm
Package 3 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
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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Sensors

Dimensions

Minimum Mounting Distances

Side by side

e (1) 8 mm/0.31 in.
≥

Face to face

e (2) 48 mm/1.89 in.
≥

Facing a metal object

e (3) 12 mm/0.47 in.
≥

Mounting

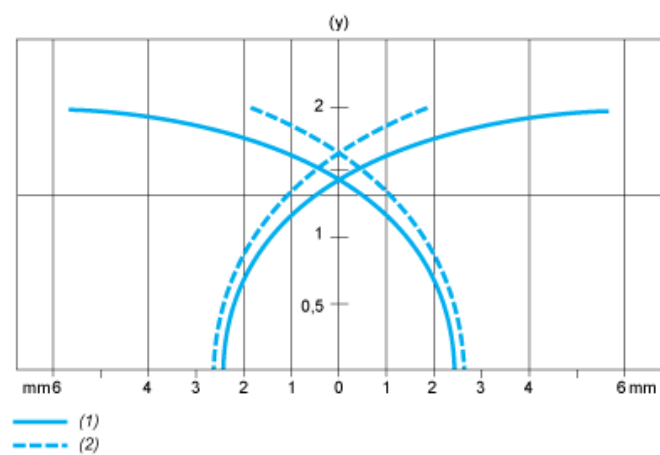(1)   Bending cable: 4 x external cable diameter

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Wiring Schemes

2-Wire AC or DC

NC output

BU : Blue
BN : Brown

Performance Curves

Standard Steel Target : 12x12x1 mm


```
        (y)

        2 --

        1 --

        0,5 --

mm6   4   3   2   1   0   1   2   3   4   6 mm
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——— (1)
—--—--- (2)

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

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