XS512B1DAL08M12

inductive sensor XS5 M12 - L53mm - brass - Sn2mm - 12..48VDC - M12 - 0.8 m

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 NO
Output circuit type	DC
Electrical connection	4 pins M12 remote male connector, pin assignment : 3-4
Cable length	0.8 m
[Us] rated supply voltage	12...48 V DC
Switching capacity in mA	1.5...100 mA DC with overload and short-circuit protection
IP degree of protection	IP68 double insulation conforming to IEC 60529 IP65 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	10…58 V DC
Maximum residual current	0.5 mA open state
Switching frequency	<= 4000 Hz
Maximum voltage drop	<4 V (closed)
Maximum delay first up	10 ms
Maximum delay response	0.2 ms
Maximum delay recovery	0.2 ms
Marking	CE
Threaded length	42 mm
Height	18 mm

Length	53 mm
Net weight	0.085 kg

Environment

Product certifications	CSA UL CCC
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	0.077 kg
Package 1 Height	0.420 dm
Package 1 width	0.970 dm
Package 1 Length	1.320 dm

Offer Sustainability

EU RoHS Directive	Not applicable, out of EU RoHS legal scope
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information

Contractual warranty

Warranty	18 months

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Dimensions

Minimum Mounting Distances
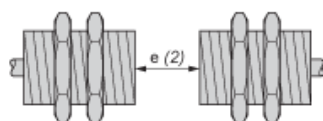
Side by side
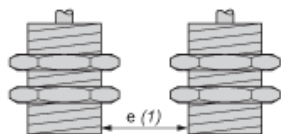
e (1) 4 mm/0.16 in.
≥

Face to face

e (2) 24 mm/0.94 in.
≥

Facing a metal object

e (3) 6 mm/0.24 in.
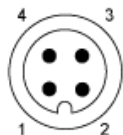≥

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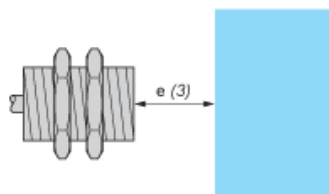
Wiring Schemes

2-Wire Non-polarised

M12 connector

NO output

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Performance Curves

Standard Steel Target : 12x12x1 mm


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        (y)
         2 ┼
         1 ┼
       0,5 ┼
mm6    4   3   2   1   0   1   2   3   4   6 mm
```

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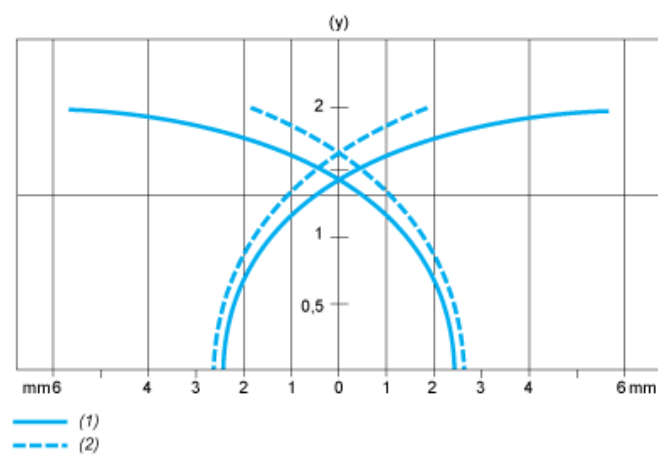
(1)   Pick-up points
(2)   Drop-out points (object approaching from the side)
(y)   Sensing distance in mm

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