Product data sheet
Characteristics

XS608B1NAL10
inductive sensor XS6 M8 - L51mm - stainless - Sn2.5mm - 12..48VDC - cable 10m

Main

Range of product	OsiSense XS
Series name	General purpose
Sensor type	Inductive proximity sensor
Sensor name	XS6
Sensor design	Cylindrical M8
Size	51 mm
Body type	Fixed
Detector flush mounting acceptance	Flush mountable
Material	Stainless steel
Type of output signal	Discrete
Wiring technique	3-wire
[Sn] nominal sensing distance	2.5 mm
Discrete output function	1 NO
Output circuit type	DC
Discrete output type	NPN
Electrical connection	Cable
Cable length	10 m
[Us] rated supply voltage	12...48 V DC with reverse polarity protection
Switching capacity in mA	<= 200 mA DC with overload and short-circuit protection
IP degree of protection	IP67 conforming to IEC 60529

Complementary

Thread type	M8 x 1
Detection face	Frontal
Front material	PPS
Enclosure material	Stainless steel 303
Sensing range	> 0...2.5 mm
Operating zone	0…2 mm
Differential travel	1...15% of Sr
Cable composition	3 x 0.11 mm²
Wire insulation material	PvR
Status LED	Output state: 1 LED (yellow)
Supply voltage limits	10…58 V DC
Switching frequency	<= 2500 Hz
Maximum voltage drop	<2 V (closed)
Current consumption	<= 10 mA no-load
Maximum delay first up	10 ms
Maximum delay response	0.2 ms
Maximum delay recovery	0.2 ms
Marking	CE
Threaded length	42 mm
Length	51 mm
Net weight	0.355 kg

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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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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

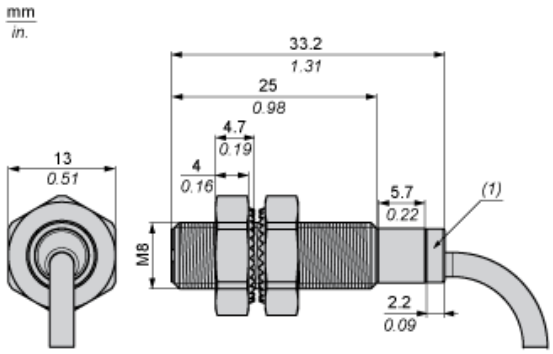
Packing Units

Package 1 Weight	0.160 kg
Package 1 Height	0.670 dm
Package 1 width	0.960 dm
Package 1 Length	1.320 dm

Contractual warranty

Warranty	18 months

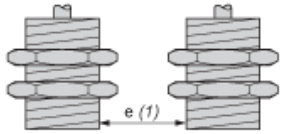
Dimensions



(1) LED

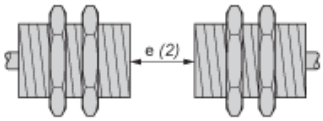
Minimum Mounting Distances in mm

Side by side



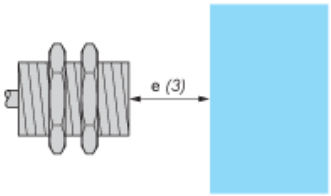
e (1) 5 mm/0.20 in.
≥

Face to face



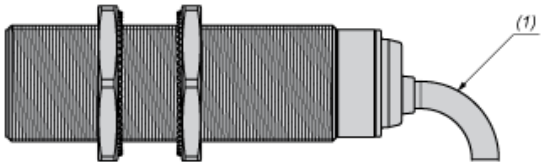
e (2) 30 mm/1.18 in.
≥

Facing a metal object



e (3) 8 mm/0.31 in.
≥

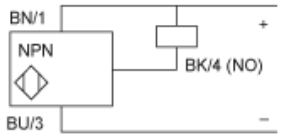
Mounting



(1) Bending cable: 4 x external cable diameter

Wiring Schemes

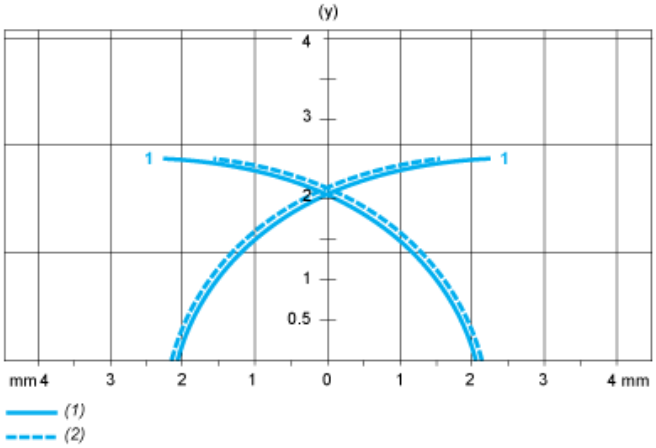
NPN



BU : Blue
BN : Brown
BK : Black

Performance Curves

Standard Steel Target (mm) : 8x8x1



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