



Main

Range of product	OsiSense XS
Series name	Application
Sensor type	Inductive proximity sensor
Device application	Industrial machines
Sensor name	XS9
Sensor design	Cylindrical M8
Size	66 mm
Body type	Single piece body
Enclosure material	Stainless steel 303
Type of output signal	Discrete
Wiring technique	3-wire
[Sn] nominal sensing distance	6 mm
Discrete output function	1 NO
Discrete output type	PNP
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 IP69K conforming to DIN 40050

Complementary

Thread type	M8 x 1
Detection face	Frontal
Detector flush mounting acceptance	Non flush mountable
Material	Stainless steel 303
Front material	Stainless steel 303
Operating zone	0...4.8 mm
Differential travel	1...15 % of Sr
Repeat accuracy	<= 5 % of Sr
Output circuit type	DC
Status LED	Output state: 1 LED (yellow)

Supply voltage limits	10...30 V DC
Maximum residual current	0.1 mA open state
Switching frequency	<= 700 Hz
Maximum voltage drop	<2 V (closed)
Current consumption	<= 10 mA no-load
Maximum delay first up	40 ms
Maximum delay response	0.00005 ms
Maximum delay recovery	0.023 ms
Marking	CE
Threaded length	42 mm
Height	8 mm
Length	66 mm
Product weight	0.018 kg

Environment

Product certifications	CULus
Ambient air temperature for operation	-25...70 °C
Ambient air temperature for storage	-25...70 °C
Vibration resistance	25 gn amplitude = +/- 1 mm (f = 10...55 Hz) conforming to IEC 60068-2-6
Shock resistance	30 gn for 11 ms conforming to IEC 60068-2-27

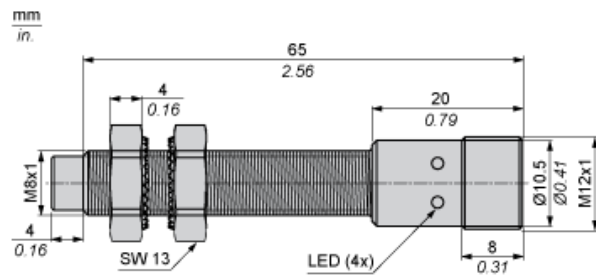
Offer Sustainability

EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes

Contractual warranty

Warranty	18 months
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Dimensions



Minimum Mounting Distances in mm

Side by side



$e (1) \geq 52 \text{ mm}/2.05 \text{ in.}$

Face to face



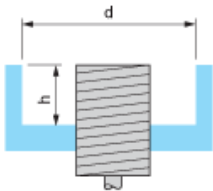
$e (2) \geq 25 \text{ mm}/0.98 \text{ in.}$

Facing a metal object



$e (3) \geq 20 \text{ mm}/0.79 \text{ in.}$

Mounted in a metal support



$d \geq 20 \text{ mm}/0.79 \text{ in.}$

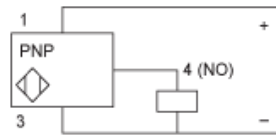
$h \geq 15 \text{ mm}/0.59 \text{ in.}$

Wiring Schemes

M12 connector



PNP



- 1 : (+)
- 2 : Not connected
- 3 : (-)
- 4 : NO Output