

# XS9F111A2L01M8

inductive sensor XS9 15x32x8 - PBT - Sn5mm  
- 24VDC - M8 0.15m



## Main

Range of product	OsiSense XS
Series name	Application
Sensor type	Inductive proximity sensor
Device application	-
Sensor name	XS9
Sensor design	Flat form 15 x 32 x 8
Size	8 mm
Body type	Fixed
Detector flush mounting acceptance	Flush mountable
Material	Plastic
Enclosure material	PBT
Type of output signal	Analogue
Wiring technique	2-wire
[Sn] nominal sensing distance	5 mm
Output circuit type	DC
Analogue output range	4...20 mA
Electrical connection	Remote male connector M8, 3 pins
Cable length	0.15 m
[Us] rated supply voltage	24 V DC
IP degree of protection	IP67 conforming to IEC 60529

## Complementary

Detection face	Frontal
Front material	PBT
Operating zone	1...5 mm
Repeat accuracy	<= 3% of Sr
Linearity error	+/- 2 mA
Status LED	Without
Supply voltage limits	15...36 V DC
Switching frequency	<= 2000 Hz
Current consumption	0...4 mA no-load
Maximum output current drift	10 %
Marking	CE
Depth	8 mm
Height	32 mm
Width	15 mm

## 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

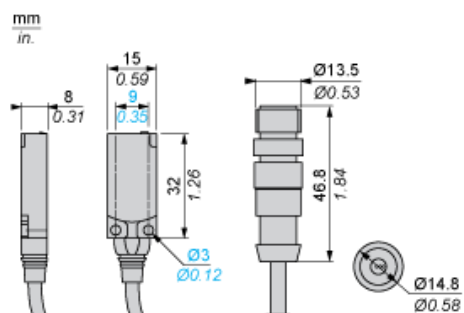
### Packing Units

Package 1 Weight	0.032 kg
Package 1 Height	0.420 dm
Package 1 width	0.670 dm
Package 1 Length	0.960 dm

### Contractual warranty

Warranty	18 months
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## Dimensions



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## Setting-up

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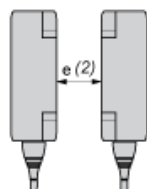
### Minimum Mounting Distances (mm)

Side by Side



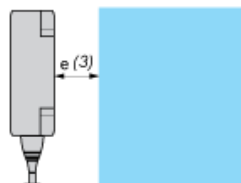
$e(1) \geq 15$

Face to Face



$e(2) \geq 36$

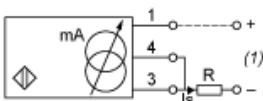
Facing a Metal Object



$e(3) \geq 15$

Wiring Schemes

2-Wire Connection

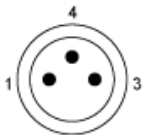


(1) Output current

Ensure a minimum of 10 V between the + (terminal 1) and - (terminal 3) of the sensor

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

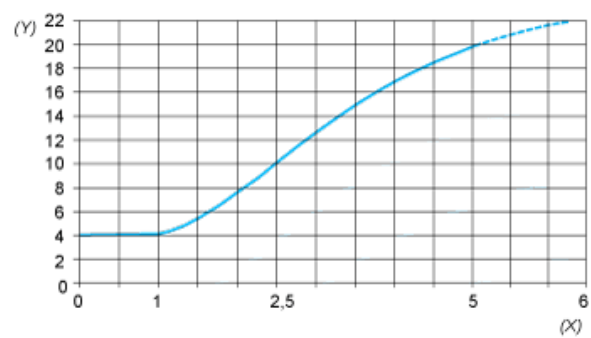
M8



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Output Curves

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(Y)  $I_s$  (mA)  
(X) Sensors - object distance (mm)