Product data sheet
Characteristics

XS9D111A1M12
Inductive proximity sensors XS, inductive sensor XS9 80x80x26, PBT, Sn40mm, 24 VDC, M12

Main

Range of product	Telemecanique Inductive proximity sensors XS
Series name	Application
Sensor type	Inductive proximity sensor
Device application	-
Sensor name	XS9
Sensor design	Flat form 80 x 80 x 26
Size	26 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	40 mm
Output circuit type	DC
Analogue output range	0...10 V
Electrical connection	Male connector M12, 4 pins
[Us] rated supply voltage	24 V DC
IP degree of protection	IP67 double insulation conforming to IEC 60529

Complementary

Detection face	Frontal
Front material	PBT
Operating zone	5…40 mm
Repeat accuracy	<= 3% of Sr
Linearity error	+/- 1 V
Status LED	Without
Supply voltage limits	15…36 V DC
Switching frequency	<= 100 Hz
Current consumption	0...4 mA no-load
Maximum output current drift	10 %
Marking	CE
Depth	26 mm
Height	80 mm
Width	80 mm

Environment

Product certifications	UL Ecolab CSA
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	0.369 kg
Package 1 Height	0.410 dm
Package 1 width	0.950 dm
Package 1 Length	1.300 dm

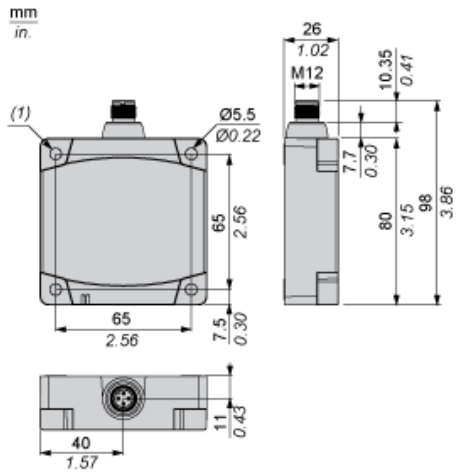
Offer Sustainability

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

Contractual warranty

Warranty	18 months

Dimensions

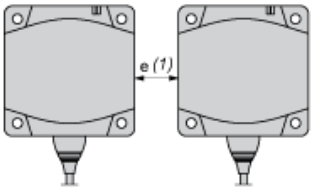


(1) For CHC type screws

Setting-up

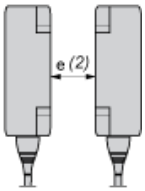
Minimum Mounting Distances (mm)

Side by Side



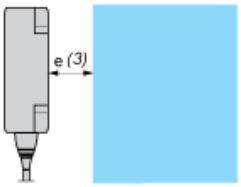
e (1) 120
≥

Face to Face



e (2) 300
≥

Facing a Metal Object



e (3) 120
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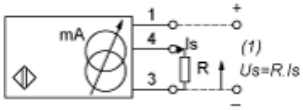
Wiring Schemes

3-Wire Connection

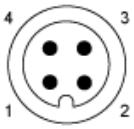


(1) Voltage output

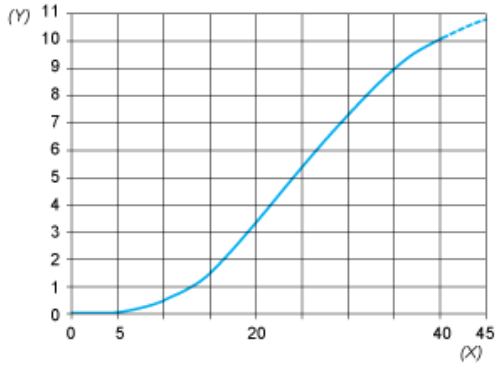
Ensure a minimum of 5 V between the + (terminal 1) and the sensor output (terminal 4)

	Output current	Load impedance value	Output voltage	Load impedance value
24 V	0...10 mA	R ≤ 1400 Ω	0...10 V	R = 1000 Ω

M12



Output Curves



(Y) Us (V)
(X) Sensors - object distance (mm)