Product datasheet

Specifications



inductive sensor XS9 40x40x117 - PBT - Sn25 mm - 24VDC - terminals

XS9C4A2A1G13

Main

Range of product	Telemecanique Inductive proximity sensors XS
Series name	General purpose
Sensor type	Inductive proximity sensor
Device application	-
Sensor name	XS9
Sensor design	Form 40 x 40 x 117
Size	117 mm
Body type	Fixed
Detector flush mounting acceptance	Non flush mountable
Material	Plastic
Enclosure material	PBT
Type of output signal	Analogue
Wiring technique	3-wire
[Sn] nominal sensing distance	25 mm
Output circuit type	DC
Analogue output range	0...10 V
Electrical connection	Screw-clamp terminals, 4 x 1.5 mm²
[Us] rated supply voltage	24 V DC with reverse polarity protection
IP degree of protection	IP67 conforming to IEC 60529 IP65 conforming to IEC 60529 IP69K conforming to DIN 40050

Complementary

Detection face	5 positions turret head
Front material	PBT
Operating zone	2…27 mm
Linearity error	<= 3% of Sr
Maximum output current drift	5 %
Cable entry number	1 tapped entry for Pg 13.5 cable gland

Disclaimer: 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

Status LED	Output state: 1 LED (yellow)
Supply voltage limits	15…36 V DC
Current consumption	0...4 mA no-load
Maximum delay first up	7.5 ms
Maximum delay response	6 ms
Maximum delay recovery	6 ms
Marking	CE
Height	40 mm
Length	40 mm
Width	117 mm
Net weight	0.244 kg

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 EN 60068-2-27

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	252.0 g
Package 1 Height	5 cm
Package 1 width	5 cm
Package 1 Length	14.5 cm
Unit Type of Package 2	S02
Number of Units in Package 2	14
Package 2 Weight	3.818 kg
Package 2 Height	15 cm
Package 2 width	30 cm
Package 2 Length	40 cm
Package 3 Height	70 cm

Offer Sustainability

Sustainable offer status	Green Premium product
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
Environmental Disclosure	Product Environmental Profile

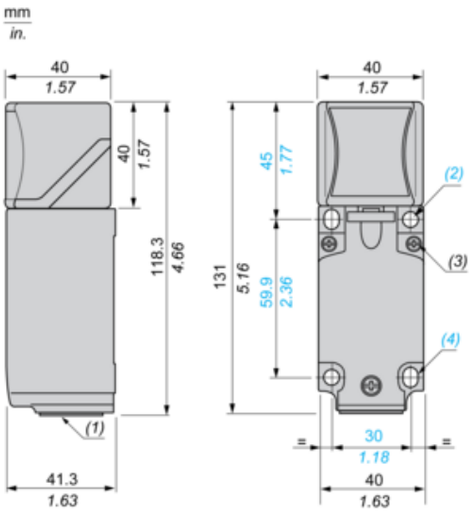
Contractual warranty

Warranty	18 months

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Dimensions Drawings

Dimensions



(1) : Pg 13.5 cable gland.

(2) : 2 holes Ø 5,45 mm / Ø 0.21 in. Tightening torque: < 1,5 Nm / < 13.3 lb-in.

(3) : 3 screws M3,5. Tightening torque: < 1,2 Nm / < 10.6 lb-in.

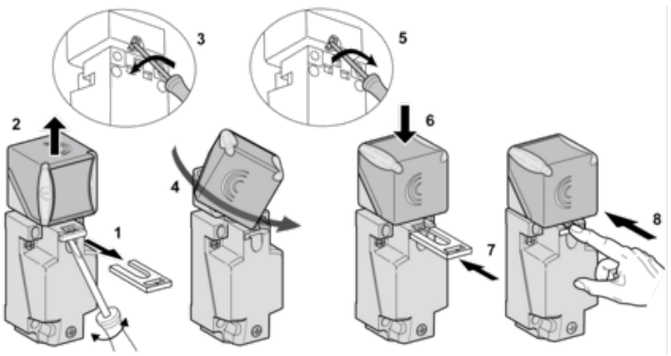
(4) : 2 alongated holes 5,4 x 7,4 mm / 0.21 x 0.29 in. Tightening torque: < 1,5 Nm / < 13.3 lb-in".

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Mounting and Clearance

Mounting

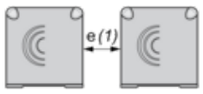
Head Positions



Setting-up Precautions

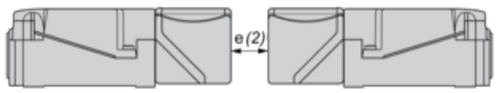
Minimum Mounting Distances (mm)

Side by Side



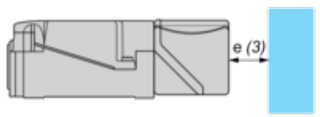
e (1) ≥ 120

Face to Face



e (2) ≥ 240

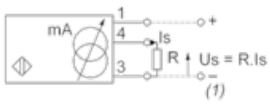
Facing a Metal Object



e (3) ≥ 90

Wiring Schemes

3-Wire

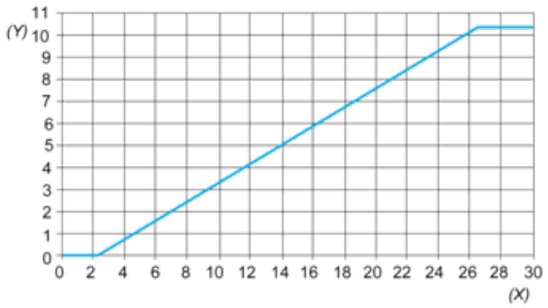


(1) Output voltage

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

	Output current	Load impedance value	Output voltage	Load impedance value
12 V	0...10 mA	R ≤ 630 Ω	-	-
24 V	0...10 mA	R ≤ 1500 Ω	0...10 V	R = 1000 Ω

Analogue Outputs



(Y) Output current (V)

(X) Sensing distance (mm)