

Product datasheet

Specifications



inductive sensor XS9 40x40x70 - PBT - Sn25 mm - 12..24VDC - M12

XS9C2A2A2M12

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 70
Size	70 mm
Body type	Fixed
Detector flush mounting acceptance	Non flush mountable
Material	Plastic
Enclosure material	PBT
Type of output signal	Analogue
Wiring technique	2-wire
[Sn] nominal sensing distance	25 mm
Output circuit type	DC
Analogue output range	4...20 mA
Electrical connection	Male connector M12, 4 pins
[Us] rated supply voltage	12...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 %
Status LED	Output state: 1 LED (yellow)

Supply voltage limits	12...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	70 mm
Net weight	0.149 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	150.0 g
Package 1 Height	4.6 cm
Package 1 width	4.2 cm
Package 1 Length	8.7 cm
Unit Type of Package 2	S02
Number of Units in Package 2	42
Package 2 Weight	6.783 kg
Package 2 Height	15 cm
Package 2 width	30 cm
Package 2 Length	40 cm
Unit Type of Package 3	P06
Number of Units in Package 3	672
Package 3 Weight	109.86 kg
Package 3 Height	80 cm
Package 3 width	80 cm
Package 3 Length	60 cm

Offer Sustainability

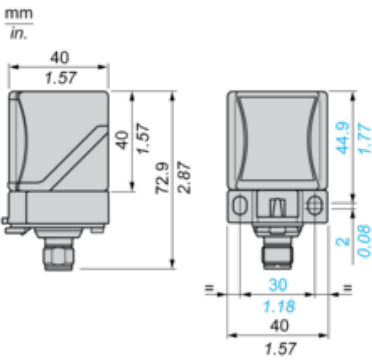
Sustainable offer status	Green Premium product
REACH Regulation	REACH Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration

Mercury free	Yes
RoHS exemption information	Yes
Environmental Disclosure	Product Environmental Profile

Contractual warranty

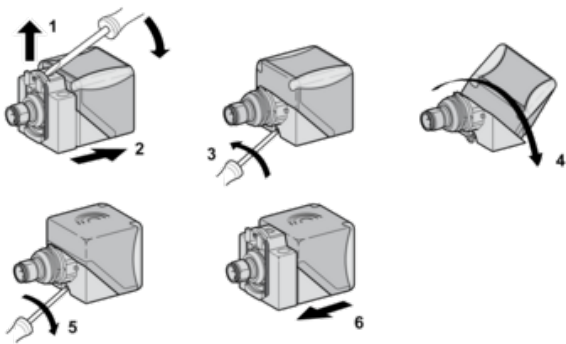
Warranty	18 months
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Dimensions



Mounting

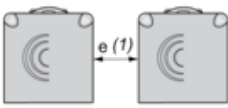
Head Positions



Setting-up Precautions

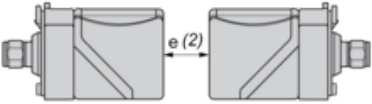
Minimum Mounting Distances (mm)

Side by Side



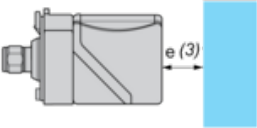
$e (1) \geq 120$

Face to Face



$e (2) \geq 240$

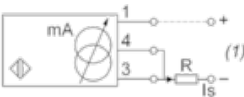
Facing a Metal Object



$e (3) \geq 90$

Wiring Schemes

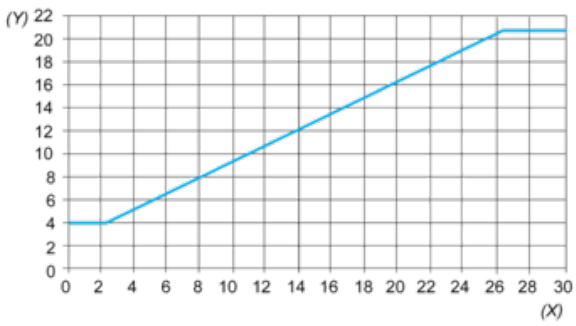
2-Wire



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

	Output current	Load impedance value
12 V	4...20 mA	$R \leq 82 \, \Omega$
24 V	4...20 mA	$R \leq 560 \, \Omega$

Analogue Outputs



(Y) Output current (mA)
(X) Sensing distance (mm)