

Product data sheet Characteristics

XS9C4A2A2N12

inductive sensor XS9 40x40x117 - PBT - Sn25 mm - 12..24VDC - terminals





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	2-wire
[Sn] nominal sensing distance	25 mm
Output circuit type	DC
Analogue output range	420 mA
Electrical connection	Screw-clamp terminals, 4 x 1.5 mm ²
[Us] rated supply voltage	1224 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

Complementary		
Detection face	5 positions turret head	
Front material	PBT	
Operating zone	227 mm	
Linearity error	<= 3% of Sr	
Maximum output current drift	5 %	
Cable entry number	1 tapped entry for 1/2" NPT cable gland	
Status LED	Output state: 1 LED (yellow)	
Supply voltage limits	1236 V DC	
Current consumption	04 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[RETURN]UL	
Ambient air temperature for operation	-2570 °C	
Ambient air temperature for storage	-4085 °C	
Vibration resistance	25 gn amplitude = +/- 2 mm (f = 1055 Hz) conforming to IEC 60068-2-6	
Shock resistance	50 gn for 11 ms conforming to IEC 60068-2-27	

Packing Units

PCE	
1	
14.5 cm	
5.0 cm	
5.0 cm	
244.0 g	
	1 14.5 cm 5.0 cm 5.0 cm

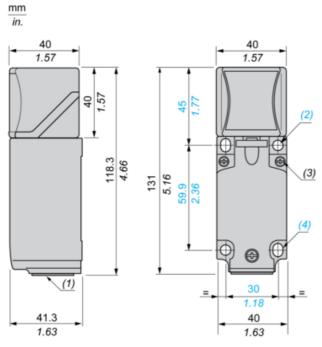
Offer Sustainability

Sustainable offer status	Green Premium product	
REACh Regulation	☑ REACh Declaration	
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)	
Mercury free	Yes	
RoHS exemption information	₫Yes	
Circularity Profile	No need of specific recycling operations	

Contractual warranty

Warranty	18 months

Dimensions

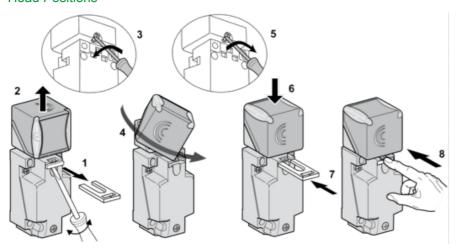


- (1): 1/2" NPT cable gland.
- (2) : 2 holes Ø 5,45 mm / Ø 0.21 in. Tightening torque: < 1,5 Nm / < 13.3 lb-in.
- (3) : 3 screws M3,5. Tightening torque: < 1,2 Nm / < 10.6 lb-in.
- (4) : 2 alongated holes 5,4 x 7,4 mm / 0.21 x 0.29 in. Tightening torque: < 1,5 Nm / < 13.3 lb-in".

XS9C4A2A2N12

Mounting

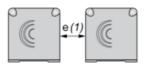
Head Positions



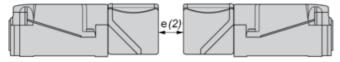
Setting-up Precautions

Minimum Mounting Distances (mm)

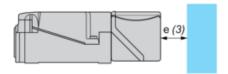
Side by Side



e (1) ≥ 120 Face to Face



e (2) ≥ 240 Facing a Metal Object



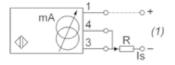
e (3) ≥ 90

Product data sheet Connections and Schema

XS9C4A2A2N12

Wiring Schemes

2-Wire



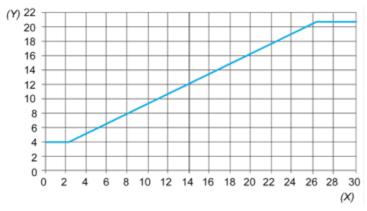
(1) Output current

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

	Output current	Load impedance value
12 V	420 mA	R ≤ 82 Ω
24 V	420 mA	R ≤ 560 Ω

XS9C4A2A2N12

Analogue Outputs



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