

Product data sheet Characteristics

XS9C4A1PCN12

inductive sensor XS9 40x40x117 - PBT - Sn20 mm - 12..24VDC - terminals





Main

Range of product	Telemecanique Inductive proximity sensors XS
Series name	General purpose
Sensor type	Inductive proximity sensor
Device application	Factor 1 (Fe/Nfe) Welding machine
Sensor name	XS9
Sensor design	Form 40 x 40 x 117
Size	117 mm
Body type	Fixed
Detector flush mounting acceptance	Flush mountable
Material	Plastic
Enclosure material	PBT
Type of output signal	Discrete
Wiring technique	4-wire
[Sn] nominal sensing distance	20 mm
Discrete output function	1 NO + 1 NC
Output circuit type	DC
Discrete output type	PNP
Electrical connection	Screw-clamp terminals, 4 x 1.5 mm ²
[Us] rated supply voltage	1224 V DC with reverse polarity protection
Switching capacity in mA	<= 200 mA with overload and short-circuit protection
IP degree of protection	IP67 conforming to IEC 60529 IP65 conforming to IEC 60529 IP69K conforming to DIN 40050

Complementary

5 positions turret head
PBT
016 mm
315% of Sr
<= 3% of Sr
Immunity to magnetic fields - test level: 250 mT
1 tapped entry for 1/2" NPT cable gland
Supply on: 1 LED (green) Output state: 1 LED (yellow)
1036 V DC
<= 250 Hz
<2 V (closed)
030 mA no-load
15 ms
2.5 ms

Maximum delay recovery	2.5 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 EN 60068-2-27

Packing Units

Unit Type of Package 1	PCE	
Number of Units in Package 1	1	
Package 1 Height	14.7 cm	
Package 1 Width	5.0 cm	
Package 1 Length	5.0 cm	
Package 1 Weight	244.0 g	

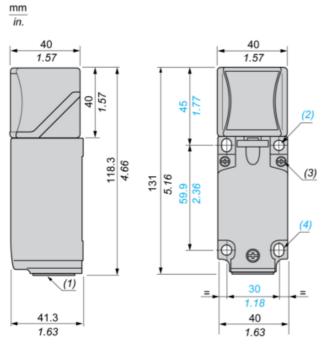
Offer Sustainability

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	8 months
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Dimensions

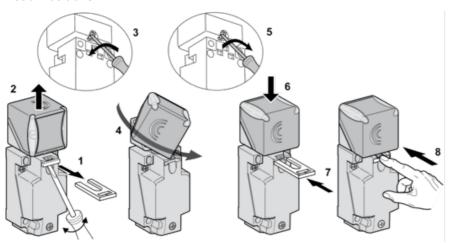


- (1): 1/2" NPT cable gland.
- (2) : 2 holes Ø 5,45 mm / Ø 0.21 in. Tightening torque: < 1,5 Nm / < 13.3 lb-in.
- (3) : 3 screws M3,5. Tightening torque: < 1,2 Nm / < 10.6 lb-in.
- (4) : 2 alongated holes 5,4 x 7,4 mm / 0.21 x 0.29 in. Tightening torque: < 1,5 Nm / < 13.3 lb-in".

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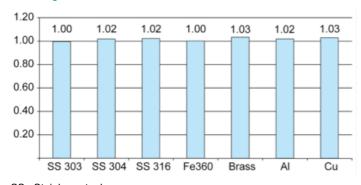
Mounting

Head Positions



Setting-up

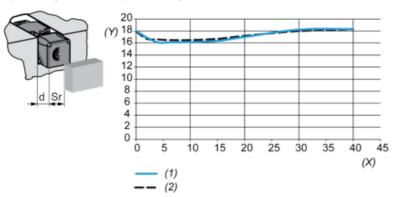
Sensing Distance Correction Factor



SS : Stainless steel
Fe : Steel
Al : Aluminium
Cu : Copper

Setting-up

Operating Distance (According to the Sensor's Level of Flush Mounting)



- (y) Sensing distance (Sr) mm
- (x) Sensing face/frame distance (d) mm
- (1) Flush mounted in aluminium
- (2) Flush mounted in Fe360

Product data sheet Connections and Schema

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Wiring Schemes

4-Wire DC

