Product data sheet
Characteristics

XS9C2A1PCM12
inductive sensor XS9 40x40x70 - PBT - Sn20 mm - 12..24VDC - M12



Main

Range of product	OsiSense XS
Series name	Application, high performance
Sensor type	Inductive proximity sensor
Device application	Welding machine Factor 1 (Fe/Nfe)
Sensor name	XS9
Sensor design	Form 40 x 40 x 70
Size	70 mm
Body type	Fixed
Detector flush mounting acceptance	Flush mountable
Material	Plastic
Enclosure material	PBT
Type of output signal	Discrete
Wiring technique	3-wire
[Sn] nominal sensing distance	20 mm
Discrete output function	1 NO + 1 NC
Output circuit type	DC
Discrete output type	PNP
Electrical connection	Male connector M12, 4 pins
[Us] rated supply voltage	12...24 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

Detection face	5 positions turret head
Front material	PBT
Operating zone	0…16 mm
Differential travel	3...15% of Sr
Repeat accuracy	<= 3% of Sr
Electromagnetic compatibility	Immunity to magnetic fields - test level: 250 mT
Status LED	Supply on: 1 LED (green) Output state: 1 LED (yellow)
Supply voltage limits	10…36 V DC
Switching frequency	<= 250 Hz
Maximum voltage drop	<2 V (closed)
Current consumption	0...30 mA no-load
Maximum delay first up	15 ms
Maximum delay response	2.5 ms
Maximum delay recovery	2.5 ms
Marking	CE
Height	40 mm
Length	40 mm

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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.
It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof.
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Width	70 mm
Net weight	0.149 kg

Environment

Product certifications	CSA UL CCC
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

Package 1 Weight	136.000 g

Offer Sustainability

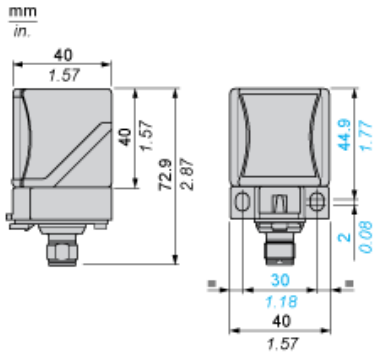
Sustainable offer status	Green Premium product
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
Environmental Disclosure	Product Environmental Profile

Contractual warranty

Warranty	18 months

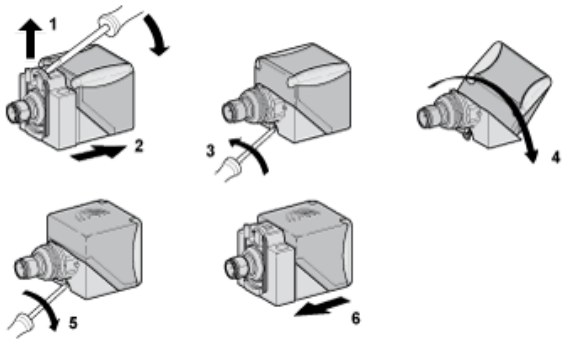
XS9C2A1PCM12

Dimensions



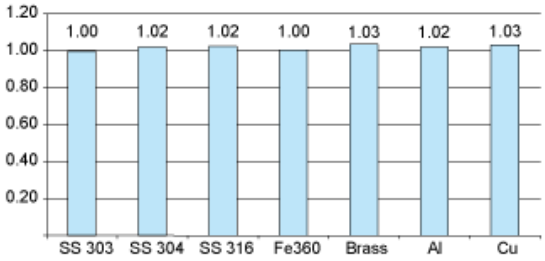
Mounting

Head Positions



Setting-up

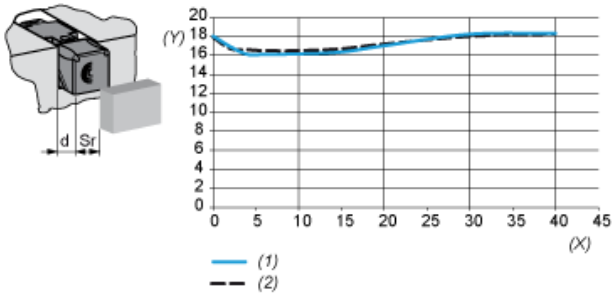
Sensing Distance Correction Factor



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

Wiring Schemes

4-Wire DC

