

## XS9C4A1PCP20

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



### Main

Range of product	OsiSense 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, clamping capacity: 4 x 1.5 mm <sup>2</sup>
[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	IP65 conforming to IEC 60529 IP67 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 at 250 mT
Cable entry number	1 tapped entry for M20 x 1.5 cable gland
Status LED	1 LED green for supply on 1 LED yellow for output state
Supply voltage limits	10...36 V DC
Switching frequency	<= 250 Hz
Voltage drop	<= 2 V at closed state
Current consumption	0...30 mA at no-load
Delay first up	<= 15 ms
Delay response	<= 2.5 ms
Delay recovery	<= 2.5 ms
Marking	CE
Height	40 mm

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Length	40 mm
Width	117 mm
Product weight	0.244 kg

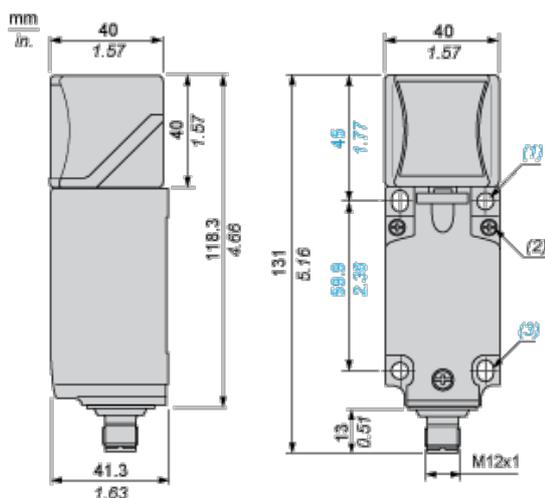
## Environment

product certifications	CCC 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

## Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 1336 - Schneider Electric declaration of conformity
REACH	Reference not containing SVHC above the threshold
Product environmental profile	Available
Product end of life instructions	Need no specific recycling operations

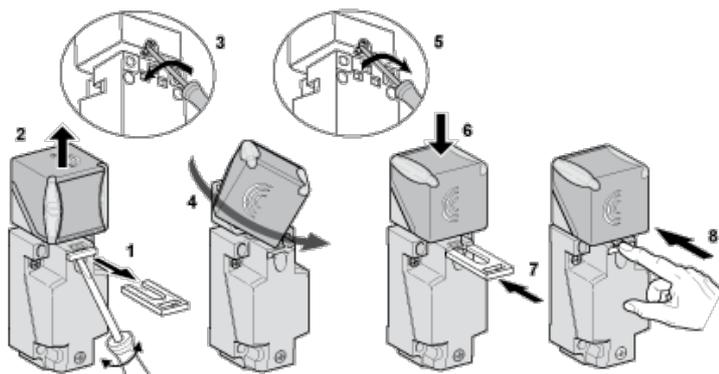
## Dimensions



- (1) 2 holes  $\varnothing$  5,45 mm /  $\varnothing$  0.21 in. (Tightening torque: < 1,5 Nm / < 13.3 lb-in.)
- (2) 3 screws M3,5. (Tightening torque: < 1,2 Nm / < 10.6 lb-in.)
- (3) 2 elongated holes 5,4 x 7,4 mm / 0.21 x 0.29 in. (Tightening torque: < 1,5 Nm / < 13.3 lb-in.)

## Mounting

### Head Positions



## Setting-up

### Sensing Distance Correction Factor



SS : Stainless steel

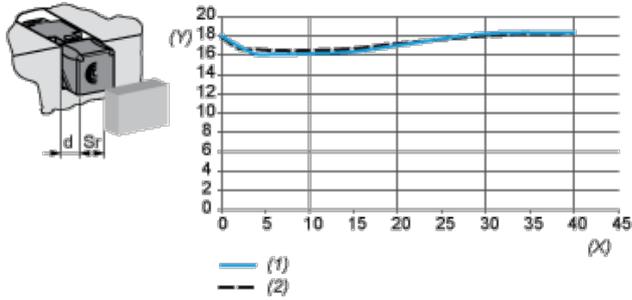
Fe : Steel

Al : Aluminium

Cu : Copper

## Setting-up

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



(y) Sensing distance ( $S_r$ ) mm

(x) Sensing face/frame distance ( $d$ ) mm

(1) Flush mounted in aluminium

(2) Flush mounted in Fe360

## Wiring Schemes

### 4-Wire DC

