References, characteristics, dimensions, schemes

Inductive proximity sensors
Osiprox® Application
Sensors for welding machine applications (1) Cylindrical type. Metal case, Teflon coated steel, threaded

Flush mountable in metal



Lengths (mm):

a = Overall

b = Threaded section

c = For non flush mounting sensors





a = 60b = 40 $\emptyset = M12 \times 1$ a = 60b = 40 $Ø = M18 \times 1$

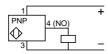
		Teflon front face	Teflon front face		
Nominal sensing distance (Sn)		2 mm	5 mm		
Reference	es				
3-wire Pl	NP NO	XS1 M12PAW01D	XS1 M18PAW01D		
Weight (kg)		0.025	0.060		
Characte	ristics				
Connection		M12 connector			
Degree of protection conforming to IEC 60529		IP 67			
Operating zone		01.6 mm	04 mm		
Repeat accuracy		3 % of Sr			
Differential travel		120 % of Sr			
Operating temperature		- 25+ 70 °C			
Output state indication		LED, 4 viewing ports at 90°			
Rated supply voltage		== 1224 V with protection against reverse polarity			
Voltage limits (including ripple)		1036 V			
Switching capacity		0250 mA with overload and short-circuit protection			
Voltage drop, closed state		≤ 2.5 V			
Current consumption, no-load		≤ 15 mA			
Immunity to electromagnetic fields		≤ 140 mT			
Maximum switching frequency		1000 Hz	500 Hz		
Delays	First-up	≤ 10 ms	≤ 10 ms		
	Response	≤ 0.1 ms	≤ 0.2 ms		
	Recovery	≤ 0.4 ms	≤ 0.6 ms		

Wiring schemes

M12 connector

3-wire ==, PNP, NO output





Depending on connector page 30210/3.

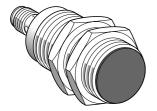
(1) Sensors particularly resistant to welding machine electromagnetic fields.

References. characteristics. dimensions, schemes (continued)

Inductive proximity sensors

Osiprox® Application Sensors for welding machine applications (1) Cylindrical type. Metal case, Teflon coated steel, threaded

Non flush mountable in metal





a = 60

b = 36c = 4

 $\emptyset = M12 \times 1$

Teflon front face

a = 60b = 40

 $Ø = M30 \times 1,5$

Teflon front face

4 mm 10 mm

XS1 M30PAW01D XS2 M12PAW01D

0.145 0.025

M12 connector

IP 67

0...8 mm 0...3.2 mm

3 % of Sr

1...20 % of Sr

- 25...+ 70 °C

LED, 4 viewing ports at 90°

== 12...24 V with protection against reverse polarity

== 10...36 V

0...250 mA with overload and short-circuit protection

≤ 2.5 V

≤ 15 mA

≤ 140 mT 250 Hz

1000 Hz ≤ 10 ms ≤ 10 ms ≤ 0.7 ms ≤ 0.2 ms ≤ 5 ms ≤ 0.4 ms

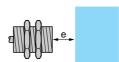
Setting-up

Minimum mounting distances (mm)

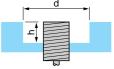
Side by side

Face to face

Facing a metal object



Mounted in a metal support



XS1 M12 flush mountable	e ≥ 0	e ≥ 7	e ≥ 6	d ≥ 12, h ≥ 0
XS1 M18 flush mountable	e ≥ 0	e ≥ 16	e ≥ 9	d ≥ 18, h ≥ 0
XS1 M30 flush mountable	e ≥ 0	e ≥ 20	e ≥ 20	$d \ge 30, h \ge 0$
XS2 M12 non flush	e ≥ 15	e ≥ 9	e ≥ 11	d ≥ 36, h ≥ 8
mountable				

Fixing nut tightening torque XS1 M12, XS2 M12 : < 15 N.m; XS1 M18 : < 35 N.m; XS1 M30 : < 50 N.m