

Are proximity sensors causing high maintenance cost & unexpected machine down time?

Introducing XS9 one-piece stainless steel weld field immune inductive proximity sensors.



New OsiSense® XS9 stainless steel Inductive proximity sensors tough enough for your harsh industrial applications and environment.

With **“3 times” sensing distance** XS9 Inductive Proximity Sensors provide a fast and comfortable setting.

In addition, the improved sensing distance allows greater distance from target to sensor face reducing potential for exposure to shock.

The **XS9 stainless steel uni-body construction** is highly resistant to damage from weld slag materials. **Superior shielding** provides immunity to magnetic fields associated with welding environments.

With a **high switching frequency** this sensor allows you to detect rapidly and precisely fast moving metal parts. Operating frequency is 3 to 6 times higher than standard inductive sensors to give more accuracy to small and fast moving parts detection.

Thanks to **Factor 1** sensing feature, both ferrous and non-ferrous can be detected from the same distance.

Well suited for applications such as:

- Welding machines
- Robots

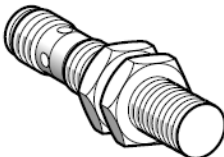


Telemecanique
Sensors

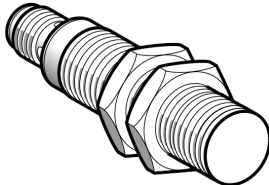
Inductive proximity sensors

OsiSense® XS application

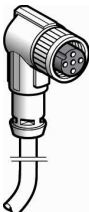
Cylindrical, stainless steel 303 front face
for welding environments
Three-wire DC, solid-state output




XS912RWPAM12



XS918RWPAM12


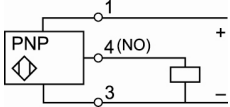


Sensing distance Sn, mm	Function	Output	Connection	Reference	Weight kg
Ø 12 mm, Threaded M12 x 1					
Three-wire 12-24V  , flush mountable					
6	NO	PNP	M12	XS912RWPAM12	0.024

Ø 18mm, Threaded M18 x 1					
Three-wire 12-24V  , flush mountable					
10	NO	PNP	M12	XS918RWPAM12	0.051

Connecting cables (PUR)*				
Description	Type	Length m	Reference	Weight kg
Pre-wired M12 connectors Female, 4-pin Metal clamping ring	Straight	2	XZCP1141L2	0.090
		5	XZCP1141L5	0.190
		10	XZCP1141L10	0.370
	Elbowed	2	XZCP1241L2	0.090
		5	XZCP1241L5	0.190
		10	XZCP1241L10	0.370

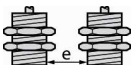
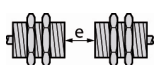
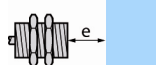
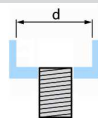
* For more information please refer to general catalog

Connecting cables	
M12 Connector	PNP
	

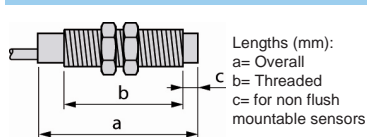
Sensor type	Flush	XS912RWPAM12	XS918RWPAM12
Product certifications		CE, cULus	
Connection	Connector	M12	
Operating zone	mm	0...4.8	0...8
Differential travel	%	1...15 (real sensing distance Sr)	
Degree of protection	IEC 60529	IP 68 (5 meters underwater for 1 month)	
	DIN 40050	IP69K	
Storage temperature	°C	-25 to +70 (-13 to 158°F)	
Operating temperature	°C	-25 to +70 (-13 to 158°F)	
Materials	Case	Stainless steel, 303 grade	
Front face thickness	mm	0.4	0.6
Mechanical shock resistance	EN 50102	IK10	
Vibration resistance	IEC 60068-2-6	25 gn, amplitude ± 1 mm (f = 10 to 55 Hz)	
Shock resistance	IEC 60068-2-27	30 gn, duration 11 ms	
Output state indication		Yellow LED, 4 viewing points at 90° (blinking from 0.8 Sr and Sr)	
Rated supply voltage	V	12...24 with protection against reverse polarity	
Voltage limits (including ripple)	V	10...30	
Switching capacity	mA	≤ 200 with overload and short circuit protection	
Voltage drop, closed state	V	≤ 2	
Current consumption, no-load	mA	≤ 10	
Maximum switching frequency	Hz	15	
Delays	First set-up	ms	80
	Response	ns	100
	Recovery	µs	15

Setting-up

Minimum mounting distances mm, Flush version

Side by side	Face to face	Facing a metal object	Mounted in a metal support
$\varnothing 12$ $e \geq 38$ $\varnothing 18$ $e \geq 42$ 	$e \geq 30$ $e \geq 40$ 	$e \geq 20$ $e \geq 30$ 	$d \geq 24$ $d \geq 50$ 

Dimensions



	Flush	
XS•Ø	M12	M18
a (mm)	60	63.5
b (mm)	41	42
c (mm)	0	0

Reduction coefficient

On target		Flush	
		M12	M18
Steel		1	1
Aluminum		1	1
Brass		1.3	1.2
Copper		0.85	0.8
Stainless steel	Thickness 1mm	0.5	0.5
	Thickness 2mm	0.9	0.9
Flush mounted		M12	M18
Steel		0.7	0.75
Aluminum		1.15	0.9
Brass		1.05	0.75
Stainless steel		0.8	0.8

Telemecanique Sensors

Simply easy!™

Telemecanique Sensors has a 9 decades history manufacturing factory automation and safety sensors. Telemecanique Sensors wide range of products is most reliable and robust hence second to none on the market.

Our aim is to simplify the life of our customers, allowing them to concentrate on their core added value and machine performance. This is why Telemecanique Sensors design and manufacture their products based on the following values:

- Simplicity and modularity
- Easy to choose and select
- Easy to install and maintain

Connect with the experts



> A dedicated team of trained and experienced professionals is available to help you with any sensing application.

> Telemecanique Sensors team is available for support in all your projects. We are ready to become an extension of your team and to share our expertise with you.

<http://www.tesensors.com>

Schneider Electric Industries SAS
Head Office
35, rue Joseph Monier - CS 30323
F92500 Rueil-Malmaison Cedex
France

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. 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. Neither Schneider Electric nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

DIA4E XXXXXXXXEN