Specifications





# inductive sensor XS1 M8 - L45mm - brass - Sn2mm - 12..24VDC - M12

XS108B3PAM12

#### Main

Range of product	Telemecanique Inductive proximity sensors XS	
Series name	General purpose	
Sensor type	Inductive proximity sensor	
Sensor name	XS1	
Sensor design	Cylindrical M8	
Size	45 mm	
Body type	Fixed	
Detector flush mounting acceptance	Flush mountable	
Material	Metal	
Type of output signal	Discrete	
Wiring technique	3-wire	
[Sn] nominal sensing distance	2.5 mm	
Discrete output function	1 NO	
Output circuit type	DC	
Discrete output type	PNP	
Electrical connection	Male connector M12, 4 pins	
[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	IP65 conforming to IEC 60529 IP67 conforming to IEC 60529	

#### Complementary

Thread type	M8 x 1
Detection face	Frontal
Front material	PPS
Enclosure material	Nickel plated brass
Operating zone	02 mm
Differential travel	115% of Sr
Status LED	Output state: 1 LED (yellow)

<= 2500 Hz
<2 V (closed)
<= 10 mA no-load
10 ms
0.2 ms
0.2 ms
CE
24 mm
45 mm

#### **Environment**

Product certifications	UL CSA
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 IEC 60068-2-27

# **Packing Units**

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	31.0 g
Package 1 Height	6.6 cm
Package 1 width	9.5 cm
Package 1 Length	4.1 cm

# 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) EU RoHS Declaration	
Mercury free	Yes	
RoHS exemption information	Yes	
Environmental Disclosure	Product Environmental Profile	
Circularity Profile	End of Life Information	

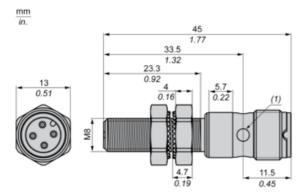
## **Contractual warranty**

Warranty 18 months	Warranty	18 months		
--------------------	----------	-----------	--	--

# XS108B3PAM12

**Dimensions Drawings** 

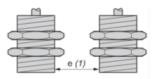
#### **Dimensions**



Mounting and Clearance

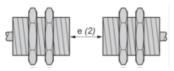
#### **Minimum Mounting Distances in mm**

Side by side

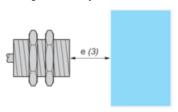


**e (1) ≥** 5 mm/0.20 in.

Face to face



e (2) ≥ 30 mm/1.18 in. Facing a metal object



e (3) ≥ 8 mm/0.31 in.

# XS108B3PAM12

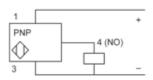
Connections and Schema

#### Wiring Schemes

#### M12 connector



#### PNP



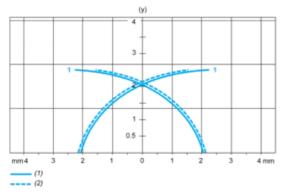
- 1:(+)
- 2: Not connected
- 3:(-)
- 4: NO Output

## XS108B3PAM12

**Performance Curves** 

#### **Performance Curves**

#### Standard Steel Target (mm): 8x8x1



- (1) Pick-up points
- (2) Drop-out points (object approaching from the side)
- (y) Sensing distance in mm