

### Product data sheet Characteristics

## XS108B3PAM12TQ

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





#### Main

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  Material Metal  Type of output signal Discrete  Wiring technique 3-wire  [Sn] nominal sensing distance  Discrete output function 1 NO  Output circuit type DC  Discrete output type PNP  Electrical connection Male connector M12, 4 pins  [Us] rated supply voltage  Switching capacity in mA  IP degree of protection IP65 conforming to IEC 60529  IP67 conforming to IEC 60529  Sale per indivisible quantity	Range of product	Telemecanique Inductive proximity sensors XS
Sensor name XS1 Sensor design Cylindrical M8 Size 45 mm  Body type Fixed  Detector flush mounting acceptance  Material Metal Type of output signal Discrete  Wiring technique 3-wire  [Sn] nominal sensing distance  Discrete output function 1 NO  Output circuit type DC  Discrete output type PNP  Electrical connection Male connector M12, 4 pins  [Us] rated supply voltage  Switching capacity in mA  IP degree of protection IP65 conforming to IEC 60529 IP67 conforming to IEC 60529 Sale per indivisible 20	Series name	General purpose
Sensor design Cylindrical M8  Size 45 mm  Body type Fixed  Detector flush mounting acceptance  Material Metal  Type of output signal Discrete  Wiring technique 3-wire  [Sn] nominal sensing distance  Discrete output function 1 NO  Output circuit type DC  Discrete output type PNP  Electrical connection Male connector M12, 4 pins  [Us] rated supply voltage  Switching capacity in mA  IP degree of protection IP65 conforming to IEC 60529 IP67 conforming to IEC 60529 Sale per indivisible 20	Sensor type	Inductive proximity sensor
Size 45 mm  Body type Fixed  Detector flush mounting acceptance  Material Metal  Type of output signal Discrete  Wiring technique 3-wire  [Sn] nominal sensing distance  Discrete output function 1 NO  Output circuit type DC  Discrete output type PNP  Electrical connection Male connector M12, 4 pins  [Us] rated supply voltage  Switching capacity in mA  IP degree of protection IP65 conforming to IEC 60529  IP67 conforming to IEC 60529  Sale per indivisible 20	Sensor name	XS1
Body type Fixed  Detector flush mounting acceptance  Material Metal  Type of output signal Discrete  Wiring technique 3-wire  [Sn] nominal sensing distance  Discrete output function 1 NO  Output circuit type DC  Discrete output type PNP  Electrical connection Male connector M12, 4 pins  [Us] rated supply voltage  Switching capacity in mA  IP degree of protection IP65 conforming to IEC 60529  Sale per indivisible 20	Sensor design	Cylindrical M8
Detector flush mounting acceptance  Material Metal  Type of output signal Discrete  Wiring technique 3-wire  [Sn] nominal sensing distance  Discrete output function 1 NO  Output circuit type DC  Discrete output type PNP  Electrical connection Male connector M12, 4 pins  [Us] rated supply voltage  Switching capacity in mA  IP degree of protection IP65 conforming to IEC 60529  Sale per indivisible 20	Size	45 mm
Acceptance  Material  Metal  Type of output signal  Discrete  Wiring technique  3-wire  [Sn] nominal sensing distance  Discrete output function  Output circuit type  DC  Discrete output type  PNP  Electrical connection  [Us] rated supply voltage  Switching capacity in mA  IP degree of protection  Metal  Metal  Discrete  Discrete  2.5 mm  1 NO  Output circuit type  DC  Discrete output type  PNP  Electrical connection  Male connector M12, 4 pins  [Us] rated supply voltage  Switching capacity in mA  IP65 conforming to IEC 60529  IP67 conforming to IEC 60529  Sale per indivisible  20	Body type	Fixed
Type of output signal  Discrete  Wiring technique 3-wire  [Sn] nominal sensing distance  Discrete output function  Output circuit type  DC  Discrete output type  PNP  Electrical connection  [Us] rated supply voltage  Switching capacity in mA  IP degree of protection  Discrete  Discrete output type  PNP  Electrical connection  Male connector M12, 4 pins  1224 V DC with reverse polarity protection  voltage  Switching capacity in mA  IP degree of protection  IP65 conforming to IEC 60529  IP67 conforming to IEC 60529  Sale per indivisible  20	•	Flush mountable
Wiring technique 3-wire  [Sn] nominal sensing distance  Discrete output function 1 NO  Output circuit type DC  Discrete output type PNP  Electrical connection Male connector M12, 4 pins  [Us] rated supply voltage  Switching capacity in mA  IP degree of protection IP65 conforming to IEC 60529  IP67 conforming to IEC 60529  Sale per indivisible 20	Material	Metal
[Sn] nominal sensing distance  Discrete output function 1 NO  Output circuit type DC  Discrete output type PNP  Electrical connection Male connector M12, 4 pins  [Us] rated supply 1224 V DC with reverse polarity protection voltage  Switching capacity in MA  IP degree of protection IP65 conforming to IEC 60529  IP67 conforming to IEC 60529  Sale per indivisible 20	Type of output signal	Discrete
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 voltage  Switching capacity in MA	Wiring technique	3-wire
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 voltage  Switching capacity in MA  IP degree of protection IP65 conforming to IEC 60529  IP67 conforming to IEC 60529  Sale per indivisible 20		2.5 mm
Discrete output type PNP  Electrical connection Male connector M12, 4 pins  [Us] rated supply voltage 1224 V DC with reverse polarity protection voltage  Switching capacity in mA  IP degree of protection IP65 conforming to IEC 60529  IP67 conforming to IEC 60529  Sale per indivisible 20	Discrete output function	1 NO
Electrical connection Male connector M12, 4 pins  [Us] rated supply voltage 1224 V DC with reverse polarity protection voltage  Switching capacity in mA  IP degree of protection IP65 conforming to IEC 60529  IP67 conforming to IEC 60529  Sale per indivisible 20	Output circuit type	DC
[Us] rated supply voltage  Switching capacity in mA  IP degree of protection  IP65 conforming to IEC 60529 IP67 conforming to IEC 60529 Sale per indivisible  20	Discrete output type	PNP
voltage  Switching capacity in mA  IP degree of protection  IP65 conforming to IEC 60529 IP67 conforming to IEC 60529 Sale per indivisible  20	Electrical connection	Male connector M12, 4 pins
mA  IP degree of protection  IP65 conforming to IEC 60529 IP67 conforming to IEC 60529  Sale per indivisible  20		1224 V DC with reverse polarity protection
IP67 conforming to IEC 60529  Sale per indivisible 20	0 .	<= 200 mA with overload and short-circuit protection
·	IP degree of protection	· · · · · · · · · · · · · · · · · · ·
	•	20

#### Complementary

Complementary		
Thread type	M8 x 1	
Detection face	Frontal	
Front material	PPS	
Enclosure material	Stainless steel 303	
Operating zone	02 mm	
Differential travel	115% of Sr	
Status LED	Output state: 1 LED (yellow)	
Supply voltage limits	1036 V DC	
Switching frequency	<= 2500 Hz	
Maximum voltage drop	<2 V (closed)	
Current consumption	<= 10 mA no-load	
Maximum delay first up	10 ms	
Maximum delay response	0.2 ms	
Maximum delay recovery	0.2 ms	
Marking	CE	
Threaded length	24 mm	

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 interested for a set of or determining suitability or intelability of these products for specific user applications. It is the documentation is not integrator to perform the appropriate and complete risk analysis, evaluating of the products with respect to the relevant specific application or use thereof. Neither Schmeider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

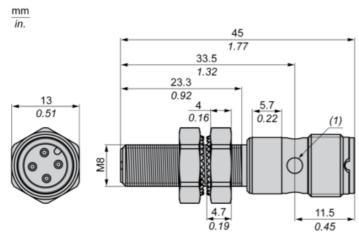
Length	45 mm
Net weight	0.94 kg
Environment	
Product certifications	UL[RETURN]CSA
Ambient air temperature for operation	-2570 °C
Ambient air temperature for storage	-4085 °C
Vibration resistance	25 gn amplitude = +/- 2 mm (f = 1055 Hz) conforming to IEC 60068-2-6
Shock resistance	50 gn for 11 ms conforming to IEC 60068-2-27
Packing Units	
Packing Units	
Unit Type of Package 1	PCE
-	, and the second
Unit Type of Package 1	PCE
Unit Type of Package 1 Number of Units in Package 1	PCE
Unit Type of Package 1 Number of Units in Package 1 Offer Sustainability	PCE 1 Green Premium product
Unit Type of Package 1 Number of Units in Package 1 Offer Sustainability Sustainable offer status	PCE  1  Green Premium product  Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS

18 months

Contractual warranty

Warranty

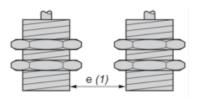
### **Dimensions**



(1) LED

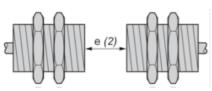
### Minimum Mounting Distances in mm

### Side by side

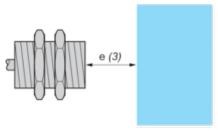


e (1)  $\geq$  5 mm/0.20 in.

Face to face



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



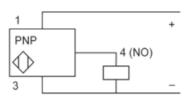
e (3)  $\geq$  8 mm/0.31 in.

### Wiring Schemes

#### M12 connector



#### PNP



1:(+)

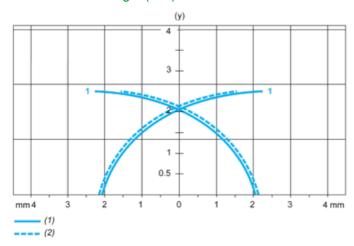
2 : Not connected

3:(-)

4 : NO Output

### **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