XXS30S1PM12

Ultrasonic sensors XX, ultrasonic sensor, stainless steel, cylindrical M30, straight, 1 m, PNP





Main

Range of Product	Telemecanique Ultrasonic sensors XX
Sensor Type	Ultrasonic sensor
Series name	General purpose
Sensor name	XXS
Sensor design	Cylindrical M30
Detection system	Diffuse
[Sn] nominal sensing distance	3.28 Ft (1 m) adjustable with remote teach push- button
	3.28 ft (1 m) software with kit
Material	Metal
Type of output signal	Discrete
Discrete output function	1 NO or 1 NC programmable
Wiring Technique	5-wire
Discrete output type	PNP
[Us] rated supply voltage	1224 V DC reverse polarity protection
Electrical connection	Male connector M12 5 pins
[Sd] sensing range	0.513.28 ft (0.1551 m)
IP degree of protection	IP65 conforming to IEC 60529 IP67

Complementary

Stainless steel 316L	
Epoxy Rubber Resin	
1030 V DC	
With synchronisation mode Software configurable	
0.513.28 ft (0.1551 m) teach mode)	
6.10 in (155 mm)	
120 kHz	
0.1 %	
-1515 °	
Cylinder diameter 1 mm 3.28 ft (1 m)	
Output state 1 LED yellow) Echo state 1 LED green)	
65 mA	
100 mA overload and short-circuit protection	
2 V	
11 Hz	
Teach mode Configurator software	
120 ms	
45 ms	
45 ms	
CE	
2.98 in (75.75 mm)	

Height	1.18 in (30 mm)	
Width	1.18 in (30 mm)	
Depth	4.02 in (102.15 mm)	
Net Weight	0.37 lb(US) (0.17 kg)	

Environment

Standards	EN/IEC 60947-5-2	
	CSA C22.2 No 14	
	UL 508	
Product Certifications	CULus	
	E2	
	EAC	
	RCM	
	Ecolab	
Ambient Air Temperature for Operation	-13158 °F (-2570 °C)	
Ambient Air Temperature for Storage	-40176 °F (-4080 °C)	
Vibration resistance	+/-1 mm 1055 Hz)IEC 60068-2-6	
Shock resistance	30 gn in all 3 axes 11 ms IEC 60068-2-27	
Resistance to electrostatic discharge	8 kV IEC 61000-4-2	
Resistance to electromagnetic fields	9.14 V/m (10 V/m) level 3 IEC 61000-4-3	
Resistance to fast transients	2 kV IEC 61000-4-4	

Ordering and shipping details

0 11 0	
Category 22489-SENSORS XX ULTRASONIC GEN PURPOSE	
Discount Schedule	DS2
GTIN	3389119644570
Returnability	Yes
Country of origin	US

Packing Units

Unit Type of Package 1	PCE	
Number of Units in Package 1	1	
Package 1 Height	5.12 in (13.0 cm)	
Package 1 Width	1.61 in (4.1 cm)	
Package 1 Length	3.74 in (9.5 cm)	
Package 1 Weight	7.94 oz (225.0 g)	

Offer Sustainability

5 11 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5		
Sustainable offer status	Green Premium product	
California proposition 65	WARNING: This product can expose you to chemicals including: Diisonor phthalate (DINP), which is known to the State of California to cause cance and Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. For more information gowww.P65Warnings.ca.gov	
REACh Regulation	REACh Declaration	
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EVEL RoHS Declaration	
Mercury free	Yes	
RoHS exemption information	₽¥Yes	
Environmental Disclosure	Product Environmental Profile	

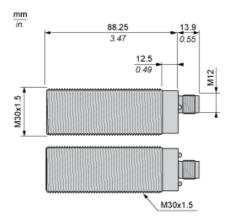
Contractual warranty

warranty 18 months	Warranty	18 months
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Product data sheet Dimensions Drawings

XXS30S1PM12

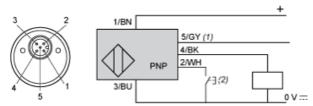
Dimensions



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Connections

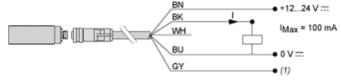
Connector Wiring



- (1): Synchronization
- (2): External setting pushbutton or XXZPB100 remote teach pushbutton.

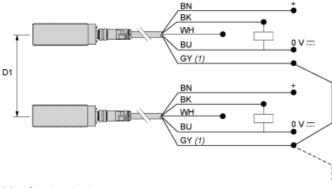
Pin number	Wire color	Description
1	BN: Brown	+1224VDC
2	WH: White	Input teach
3	BU: Blue	0 VDC
4	BK: Black	Output
5	GY: Grey	Synchronization

Wiring Scheme. Digital Output (NO or NC)



(1): Synchronization

Wiring for the Synchronization Function (Side by Side Application)



(1): Synchronization

D1: 1/8 Sn BN: Brown WH: White BU: Blue BK: Black GY: Grey

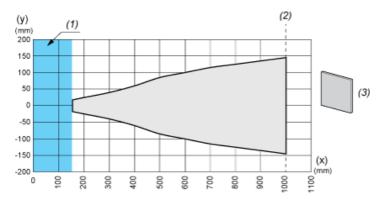
NOTE: Up to 8 sensors can be synchronized to operate side by side by electrically connecting all pin no.5 (grey) wires together.

To synchronize more than 8 sensors, a PLC output can be used (the pins no.5 must be simultaneously driven by the rising edge of a pulse).

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Performance Curves

Detection Curve with 100 x 100 mm / 3.94 x 3.94 inches Square Target



(X): Target distance

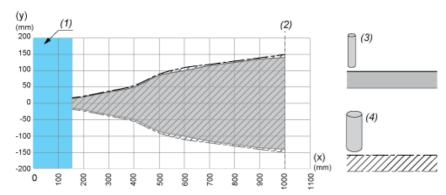
(Y): Detection limit

(1): Blind zone: 155 mm / 6.10 inches

(2): Sn max.

(3): 100 x 100 mm / 3.94 x 3.94 inches stainless steel plate

Detection Curve with Round Bar



(X): Target distance

(Y): Detection limit

(1): Blind zone: 155 mm / 6.10 inches

(2): Sn max.

(3): Ø 10 mm / 0.394 inches stainless steel cylinder (4): Ø 25 mm / 0.984 inches stainless steel cylinder