XXS30S2PM12

Ultrasonic sensors XX, ultrasonic sensor, stainless steel, cylindrical M30, straight, 2 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	2 M adjustable with remote teach push-button 2 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 with reverse polarity protection
Electrical connection	Male connector M12 5 pins
[Sd] sensing range	0.1552 m
IP degree of protection	IP65 conforming to IEC 60529 IP67

Complementary

Complementary	
Enclosure material	Stainless steel 316L
Front material	Epoxy Rubber Resin
Supply voltage limits	1030 V DC
Function available	With synchronisation mode Software configurable
[Sa] assured operating distance	0.1552 m (teach mode)
Blind zone	155 mm
Transmission frequency	120 kHz
Repeat accuracy	0.1 %
Deviation angle from 90° of object to be detected	-1212 °
Minimum size of detected object	Cylinder diameter 1 mm at 1.4 m
Status LED	Output state: 1 LED (yellow) Echo state: 1 LED (green)
Current consumption	65 mA
Maximum switching current	100 mA with overload and short-circuit protection
Maximum voltage drop	2 V
Switching frequency	5.5 Hz
Setting-up	Teach mode Configurator software
Maximum delay first up	150 ms
Maximum delay response	90 ms
Maximum delay recovery	90 ms
Marking	CE
Threaded length	75.75 mm
Height	30 mm

Width	30 mm
Depth	102.15 mm
Net weight	0.18 kg

Environment

Standards	IEC 60947-5-2	
	CSA C22.2 No 14	
	UL 508	
Product certifications	cULus[RETURN]E2[RETURN]RCM[RETURN]Ecolab	
Ambient air temperature for operation	-2570 °C	
Ambient air temperature for storage	-4080 °C	
Vibration resistance	+/-1 mm conforming to IEC 60068-2-6 (f = 1055 Hz)	
Shock resistance	30 gn in all 3 axes for 11 ms conforming to IEC 60068-2-27	
Resistance to electrostatic discharge	8 kV conforming to IEC 61000-4-2	
Resistance to electromagnetic fields	10 V/m level 3 conforming to IEC 61000-4-3	
Resistance to fast transients	2 kV conforming to IEC 61000-4-4	

Packing Units

Unit Type of Package 1	PCE	
Number of Units in Package 1	1	
Package 1 Height	5.334 cm	
Package 1 Width	7.874 cm	
Package 1 Length	12.954 cm	
Package 1 Weight	226.799 g	

Offer Sustainability

Sustainable offer status	Green Premium product	
Circularity Profile	No need of specific recycling operations	
California proposition 65	WARNING: This product can expose you to chemicals including: Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, and Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov	
For all Reach Rohs enquiries contact us at	sustainability@tesensors.com	

Contractual warranty

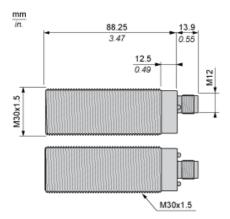
vvaliality i	8 months
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Product data sheet Dimensions Drawings

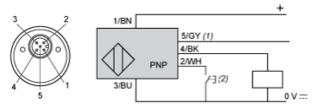
XXS30S2PM12

Dimensions



Connections

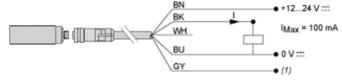
Connector Wiring



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

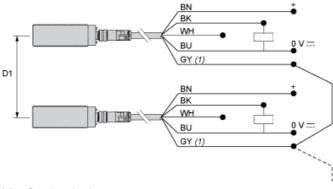
Pin number	Wire color	Description
1	BN: Brown	+1224VDC
2	WH: White	Input teach
3	BU: Blue	0 VDC
4	BK: Black	Output
5	GY: Grey	Synchronization

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

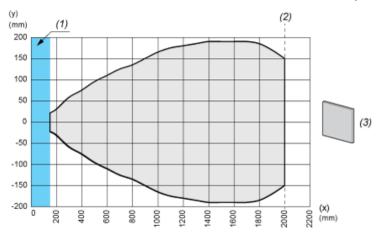
NOTE: Up to 8 sensors can be synchronized to operate side by side by electrically connecting all pin no.5 (grey) wires together.

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

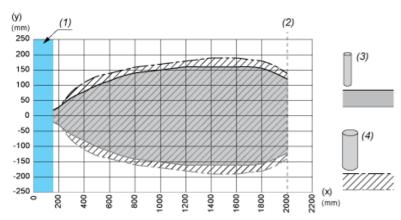
(Y): Detection limit

(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