XXS30P8PPM12

Ultrasonic sensor, plastic, cylindrical M30, straight, 8 m, 2 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 Reflex	
[Sn] nominal sensing distance	8 M adjustable with teach push-button 8 m software with kit	
Material	Plastic	
Type of output signal	Discrete	
Discrete output function	2 x (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	0.2908 m	
IP degree of protection	IP65 conforming to IEC 60529 IP67	

Complementary

Complementary		
Enclosure material	PBT	
Front material	Epoxy Rubber Resin	
Thread type	M30 x 1.5	
Supply voltage limits	1030 V DC	
Function available	With synchronisation mode Software configurable	
[Sa] assured operating distance	0.2908 m (teach mode)	
Blind zone	290 mm	
Transmission frequency	75 kHz	
Repeat accuracy	0.1 %	
Deviation angle from 90° of object to be detected	-412 °	
Minimum size of detected object	Cylinder diameter 12 mm at 1.8 m	
Status LED	Output state: 1 LED (green/yellow) Output state: 1 LED (multi-colour) Echo state: 1 LED (green)	
Current consumption	50 mA	
Maximum switching current	100 mA with overload and short-circuit protection	
Maximum voltage drop	2 V	
Switching frequency	<= 2 Hz	
Setting-up	Teach mode Configurator software	
Maximum delay first up	600 ms	
Maximum delay response	300 ms	
Maximum delay recovery	300 ms	
Marking	CE CULus	

Threaded length	43.2 mm	
Height	30 mm	
Width	43.2 mm	
Depth	116.3 mm	
Net weight	0.14 kg	

Environment

cULus[RETURN]E2[RETURN]Ecolab	
-2570 °C	
-4085 °C	
+/-1 mm conforming to IEC 60068-2-6 (f = 1055 Hz)	
30 gn in all 3 axes for 11 ms conforming to IEC 60068-2-27	
8 kV conforming to IEC 61000-4-2	
10 V/m level 3 conforming to IEC 61000-4-3	
2 kV conforming to IEC 61000-4-4	
+/-1 mm conforming to IEC 60068-2-6 (f = 1055 Hz) 30 gn in all 3 axes for 11 ms conforming to IEC 60068-2-27 8 kV conforming to IEC 61000-4-2 10 V/m level 3 conforming to IEC 61000-4-3	

Packing Units

PCE	
1	
6.858 cm	
9.652 cm	
13.462 cm	
185.975 g	
	1 6.858 cm 9.652 cm 13.462 cm

Offer Sustainability

WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
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

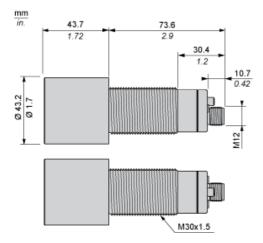
Warranty 18	3 months
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Product data sheet Dimensions Drawings

XXS30P8PPM12

Dimensions

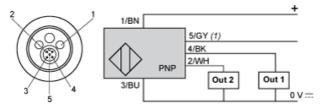


Product data sheet Connections and Schema

XXS30P8PPM12

Connections

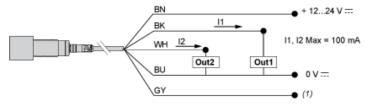
Connector Wiring



(1): Synchronization

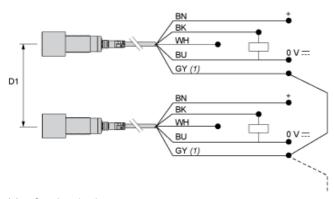
Pin number	Wire color	Description
1	BN: Brown	+1224VDC
2	WH: White	Output 2
3	BU: Blue	0 VDC
4	BK: Black	Output 1
5	GY: Grey	Synchronization

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

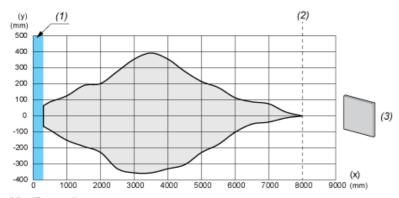
NOTE: Up to 8 sensors can be synchronized to operate side by side by electrically connecting all pin no.5 (grey) wires together.

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

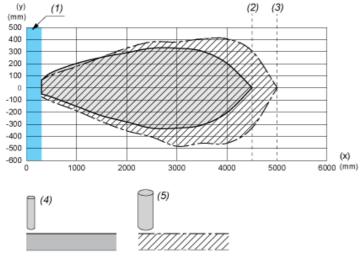
(Y): Detection limit

(1): Blind zone: 290 mm / 11.41 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: 290 mm / 11.41 inches

(2) : Sn max. with Ø 10 mm / 0.394 inches cylinder

(3): Sn max. with Ø 25 mm / 0.984 inches cylinder

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

(5): Ø 25 mm / 0.984 inches stainless steel cylinder