Product data sheet Characteristics

XXS30P4VM12

Ultrasonic sensors XX, ultrasonic sensor, plastic, cylindrical M30, straight, 4 m, 0...10 V





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	4 M adjustable with remote teach push-button 4 m software with kit	
Material	Plastic	
Type of output signal	Analogue	
Wiring technique	5-wire	
Analogue output function	010 V	
[Us] rated supply voltage	24 V DC with reverse polarity protection	
Electrical connection	Male connector M12 5 pins	
[Sd] sensing range	0.4204 m	
IP degree of protection	IP65 conforming to IEC 60529 IP67	

Complementary

Complementary	
Enclosure material	PBT
Front material	Epoxy Rubber Resin
Supply voltage limits	1430 V DC
Function available	With synchronisation mode Software configurable
[Sa] assured operating distance	0.4204 m (teach mode)
Blind zone	420 mm
Transmission frequency	80 kHz
Repeat accuracy	0.1 %
Deviation angle from 90° of object to be detected	-1010 °
Minimum size of detected object	Cylinder diameter 1 mm at 1.8 m
Status LED	Output state: 1 LED (yellow) Echo state: 1 LED (green)
Current consumption	65 mA
Maximum switching capacity	>= 1 kOhm overload and short-circuit protection
Setting-up	Teach mode Configurator software
Maximum delay first up	500 ms
Maximum delay recovery	400 ms
Marking	CE
Threaded length	74.7 mm
Height	30 mm
Width	40 mm
Depth	119 mm
Net weight	0.1 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	-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 Weight	150 g	
Package 1 Height	13 cm	
Package 1 width	4.1 cm	
Package 1 Length	9.5 cm	

Offer Sustainability

Sustainable offer status	Green Premium product Pro-active compliance (Product out of EU RoHS legal scope) □ EU RoHS Declaration	
EU RoHS Directive		
Mercury free	Yes	
RoHS exemption information	₫Yes	
Environmental Disclosure	Product Environmental Profile	
WARNING: This product can expose you to chemicals including phthalate (DINP), which is known to the State of California to ca and Di-isodecyl phthalate (DIDP), which is known to the State of to cause birth defects or other reproductive harm. For more info www.P65Warnings.ca.gov		

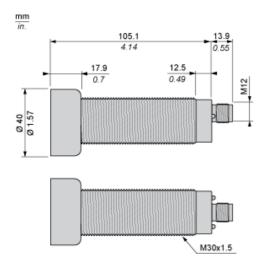
Contractual warranty

Warranty	10 mantha	
vvarrantv	18 months	
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Product data sheet **Dimensions Drawings**

XXS30P4VM12

Dimensions

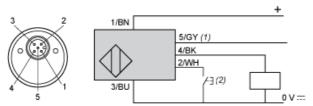


Product data sheet Connections and Schema

XXS30P4VM12

Connections

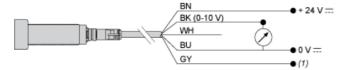
Connector Wiring



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

Pin number	Wire color	Description
1	BN: Brown	+ 24VDC
2	WH: White	Input teach
3	BU: Blue	0 VDC
4	BK: Black	Output
5	GY: Grey	Synchronization

Wiring Scheme. Analog Output

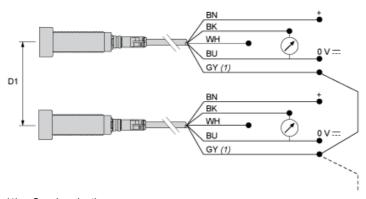


(1): Synchronization

0-10 1 kΩ...∞

V:

Wiring for the Synchronization Function (Side by Side Application)



(1): Synchronization

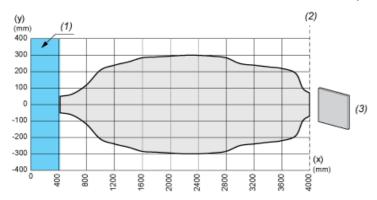
D1: 1/8 Sn BN: Brown WH: White BU: Blue BK: Black GY: Grey

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).

Performance Curves

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



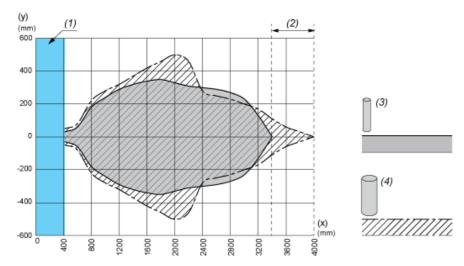
(X): Target distance

(Y): Detection limit

(1): Blind zone: 420 mm / 16.53 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: 420 mm / 16.53 inches

(2): Sn max.

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