XXS30P1VM12

Ultrasonic sensors XX, ultrasonic sensor, plastic, cylindrical M30, straight, 1 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	3.28 Ft (1 m) adjustable with remote teach push- button 3.28 ft (1 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 reverse polarity protection	
Electrical connection	Male connector M12 5 pins	
[Sd] sensing range	0.343.28 ft (0.1051 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	0.343.28 ft (0.1051 m) teach mode)
Blind zone	4.13 in (105 mm)
Transmission frequency	200 kHz
Repeat accuracy	0.1 %
Deviation angle from 90° of object to be detected	-1010 °
Minimum size of detected object	Cylinder diameter 1 mm 23.62 in (600 mm)
Status LED	Output state 1 LED yellow) Echo state 1 LED green)
Current Consumption	30 mA
Maximum switching capacity	>= 1 kOhm overload and short-circuit protection
Setting-up	Teach mode Configurator software
Maximum delay first up	180 ms
Maximum delay recovery	100 ms
Marking	CE
Threaded length	1.57 in (39.95 mm)
Height	1.18 in (30 mm)
Width	1.18 in (30 mm)
Depth	2.53 in (64.35 mm)
Product Weight	0.11 lb(US) (0.05 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

Category	22489-SENSORS XX ULTRASONIC GEN PURPOSE
Discount Schedule	DS2
GTIN	3389119644617
Returnability	Yes
Country of origin	US

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	1.70 in (4.32 cm)
Package 1 Width	3.80 in (9.65 cm)
Package 1 Length	5.10 in (12.95 cm)
Package 1 Weight	0.20 lb(US) (0.09 kg)

Offer Sustainability

Sustainable offer status	Green Premium product	
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	
REACh Regulation	☑ REACh Declaration	
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EEU RoHS Declaration	
Mercury free	Yes	
RoHS exemption information	₫Yes	
Environmental Disclosure	Product Environmental Profile	

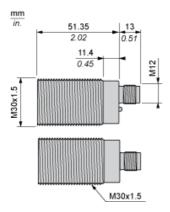
Contractual warranty

Warranty	18 months
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Product data sheet Dimensions Drawings

XXS30P1VM12

Dimensions

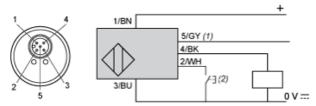


Product data sheet Connections and Schema

XXS30P1VM12

Connections

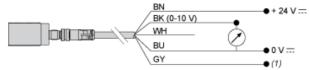
Connector Wiring



- (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

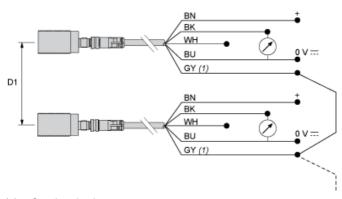


(1): Synchronization

0-10 1 kΩ...∞

V:

Wiring for the Synchronization Function (Side by Side Application)



(1): Synchronization

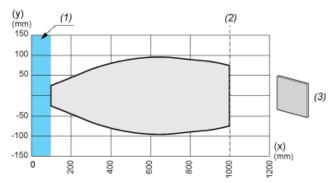
D1: 1/8 Sn BN: Brown WH: White BU: Blue BK: Black GY: Grey

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



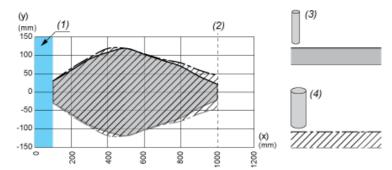
(X): Target distance (Y): Detection limit

(1): Blind zone: 105 mm / 4.13 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: 105 mm / 4.13 inches

(2): Sn max.

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

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