Product data sheet Characteristics

XXS30P2VM12

Ultrasonic sensors XX, ultrasonic sensor, plastic, cylindrical M30, straight, 2 m, 0...10 V





Main

IVIAIII		
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	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	0.1552 m	
IP degree of protection	IP65 conforming to IEC 60529 IP67	

Complementary

Enclosure material	PBT	ص 0 0
Front material	Epoxy Rubber Resin	is not intend
Supply voltage limits	1430 V DC	ration—
Function available	With synchronisation mode Software configurable	ocment
[Sa] assured operating distance	0.1552 m (teach mode)	iFi o
Blind zone	155 mm	air

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 capacity	>= 1 kOhm overload and short-circuit protection
Setting-up	Teach mode Configurator software
Maximum delay first up	250 ms
Maximum delay recovery	200 ms
Marking	CE
Threaded length	75.75 mm
Height	30 mm
Width	30 mm
Depth	102.15 mm
Product 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	130 g	
Package 1 Height	13 cm	
Package 1 width	4.1 cm	
Package 1 Length	9.5 cm	

Offer Sustainability

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

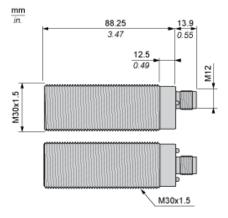
Contractual warranty

Warranty 18 months

Product data sheet XXS30P2VM12

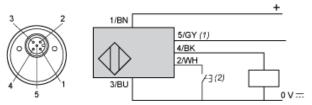
Dimensions Drawings

Dimensions



Connections

Connector Wiring

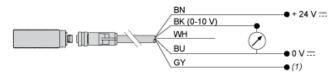


(1): Synchronization(2): External setting

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

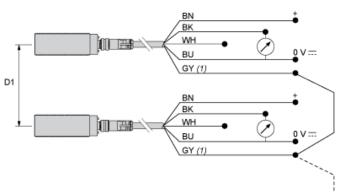
Pin number	Wire color	Description
1	BN: Brown	+ 24VDC
2	WH: White	Input teach
3	BU: Blue	0 VDC
4	BK: Black	Output
5	GY: Grey	Synchronization

Wiring Scheme. Analog Output



 $\begin{array}{ll} \text{(1):} & \text{Synchronization} \\ \text{0-10 V:} & \text{1 } k\Omega ... \infty \end{array}$

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.

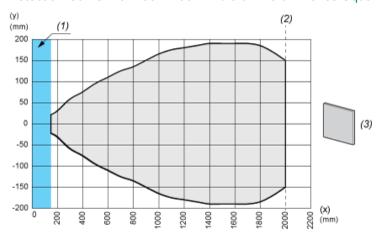
To synchronize more than 8 sensors, a PLC output can be used (the pins no.5 must be simultaneously driven by the rising edge of a pulse).

Product data sheet Performance Curves

XXS30P2VM12

Performance Curves

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



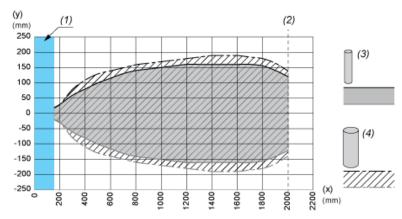
(X): Target distance (Y): Detection limit

(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