XXA30S2PM12

Ultrasonic sensors XX, ultrasonic sensor, stainless steel, cylindrical M30, angled, 2 m, **PNP**



Main

Range of produc	Telemecanique Ultrasonic sensors XX	
Sensor type	Ultrasonic sensor	
Series name	General purpose	
Sensor name	XXA	
Sensor design	Cylindrical M30	
Detection system	Diffuse (with 90° head)	
[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		
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	74.7 mm	
Height	30 mm	

Width	30 mm
Depth	129.6 mm
Net weight	0.18 kg

Environment

Standards	EN/IEC 60947-5-2	
	CSA C22.2 No 14	
	UL 508	
Product certifications	cULus[RETURN]E2[RETURN]EAC[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	4.32 cm
Package 1 Width	9.4 cm
Package 1 Length	13.46 cm
Package 1 Weight	0.24 kg

Offer Sustainability

Sustainable offer status	Green Premium product	
Environmental Disclosure	Product Environmental Profile	
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

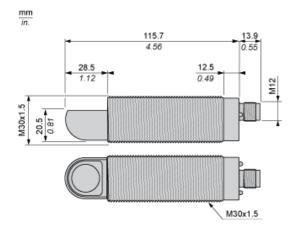
Warranty	18 months
vvarianty	18 months



Product data sheet Dimensions Drawings

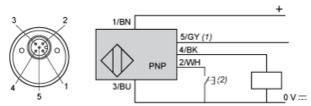
XXA30S2PM12

Dimensions



Connections

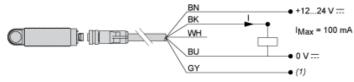
Connector Wiring



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

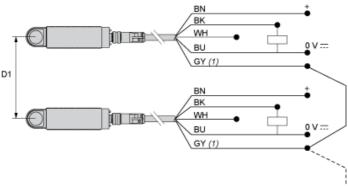
Pin number	Wire color	Description
1	BN: Brown	+1224VDC
2	WH: White	Input teach
3	BU: Blue	0 VDC
4	BK: Black	Output
5	GY: Grey	Synchronization

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

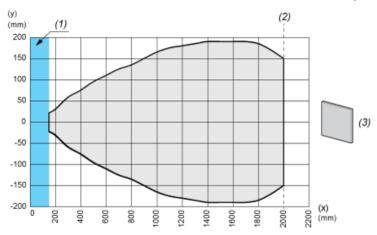
NOTE: Up to 8 sensors can be synchronized to operate side by side by electrically connecting all pin no.5 (grey) wires together.

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



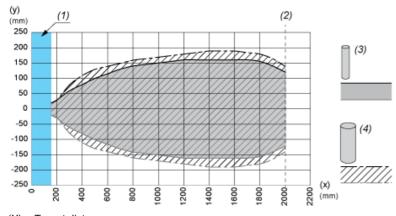
(X): Target distance (Y): Detection limit

(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