XXA30P2PM12

Ultrasonic sensors XX, ultrasonic sensor, plastic, cylindrical M30, angled, 2 m, PNP



Main

Range of product	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	Plastic	
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

Complementary	
Enclosure material	PBT
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	0.1 kg	
Environment		
Standards	IEC 60947-5-2 CSA C22.2 No 14 UL 508	
Product certifications	cULus[RETURN]E2[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	5.08 cm	
Package 1 Width	8.13 cm	
	13.46 cm	
Package 1 Length	13.46 cm	
Package 1 Length Package 1 Weight	13.46 cm 0.14 kg	
	17.17.500	
	17.17.500	
Package 1 Weight	17.17.500	
Package 1 Weight Offer Sustainability	0.14 kg	
Package 1 Weight Offer Sustainability Sustainable offer status	0.14 kg Green Premium product	



18 months

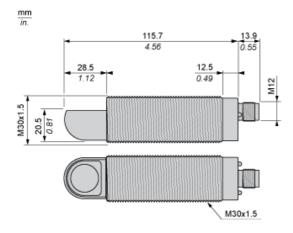
Contractual warranty

Warranty

Product data sheet Dimensions Drawings

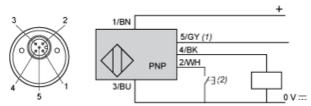
XXA30P2PM12

Dimensions



Connections

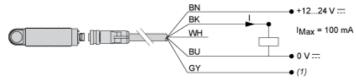
Connector Wiring



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

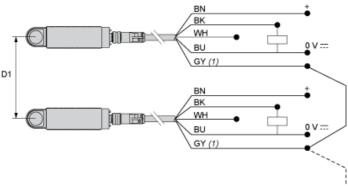
Pin number	Wire color	Description
1	BN: Brown	+1224VDC
2	WH: White	Input teach
3	BU: Blue	0 VDC
4	BK: Black	Output
5	GY: Grey	Synchronization

Wiring Scheme. Digital Output (NO or NC)



(1): Synchronization

Wiring for the Synchronization Function (Side by Side Application)



(1): Synchronization

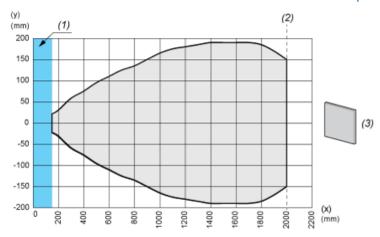
D1: 1/8 Sn BN: Brown WH: White BU: Blue BK: Black GY: Grey

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

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

Performance Curves

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



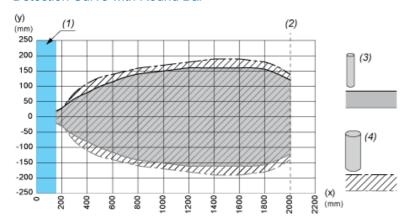
(X): Target distance (Y): Detection limit

(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