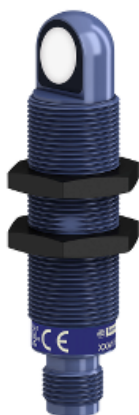


XXA18P1VM12

Ultrasonic sensors XX, ultrasonic sensor cyl.
90 deg M18, Sn=1 m, analog 0 10 V, SYNC,
connector M12



Main

Range of product	Telemecanique Ultrasonic sensors XX
Sensor type	Ultrasonic sensor
Series name	General purpose
Sensor name	XXA
Sensor design	Cylindrical M18
Material	Plastic
Type of output signal	Analogue
Wiring technique	5-wire
Analogue output function	0...10 V
[Sd] sensing range	0.105...1 m
IP degree of protection	IP65 conforming to IEC 60529 IP67

Complementary

Enclosure material	PBT
Front material	Epoxy Rubber Resin
Function available	With synchronisation mode Software configurable
Blind zone	105 mm
Transmission frequency	200 kHz
Repeat accuracy	0.1 %
Deviation angle from 90° of object to be detected	-10...10 °
Current consumption	30 mA
Setting-up	Teach mode

	Configurator software
Maximum delay first up	180 ms
Maximum delay recovery	100 ms
Marking	CE
Threaded length	45 mm
Height	18 mm
Width	18 mm
Depth	79 mm
Product weight	0.04 kg

Environment

Standards	EN/IEC 60947-5-2 CSA C22.2 No 14 UL 508
Product certifications	EAC cULus RCM E2 Ecolab
Ambient air temperature for operation	-25...70 °C
Ambient air temperature for storage	-40...80 °C

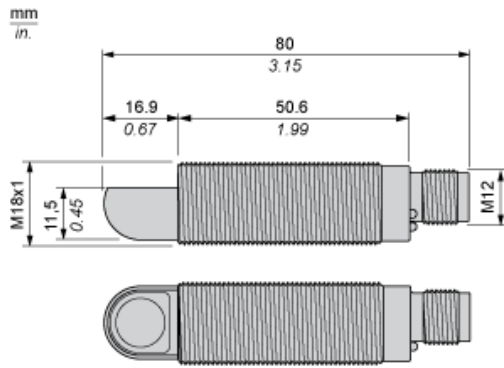
Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	35.017 g
Package 1 Height	4.1 cm
Package 1 width	6.4 cm
Package 1 Length	9.4 cm

Offer Sustainability

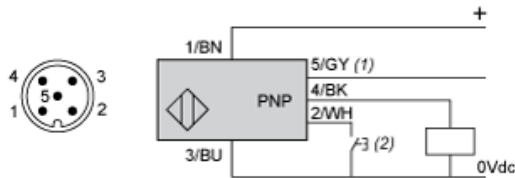
Sustainable offer status	Green Premium product
REACH Regulation	REACH Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
Environmental Disclosure	Product Environmental Profile
California proposition 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 to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

Dimensions



Connections

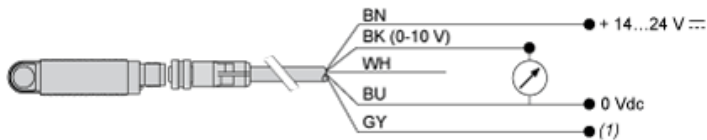
Connector Wiring



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

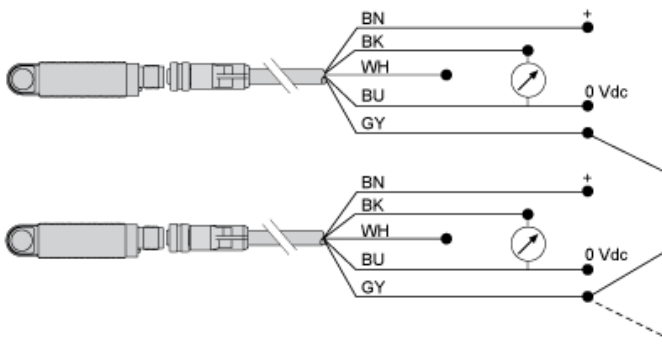
Pin number	Wire color	Description
1	BN: Brown	+14...24VDC
2	WH: White	Input teach
3	BU: Blue	0 VDC
4	BK: Black	Output
5	GY: Grey	Synchronization

Wiring Scheme



- (1) : Synchronization
- 0-10 V: 1 kΩ...∞

Wiring for the Synchronization Function (Side by Side Application)

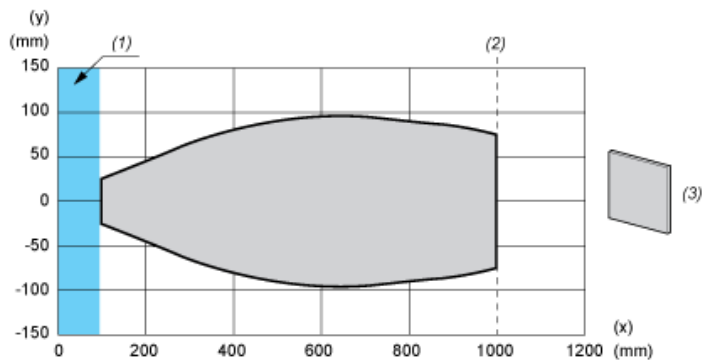


- BN : Brown
- WH : White
- BU : Blue
- BK : Black
- GY : Grey

NB: To enable synchronization between several sensors, all of the wires of pin no.5 (Grey) must be electrically connected together. A maximum of 8 sensors can be synchronized. To enable "Multiplexer" function for the sensors, use the XX Configuration Software. Without synchronization or multiplexing, the sensors must be at least 50 cm away from each other in order to avoid mutual interference.

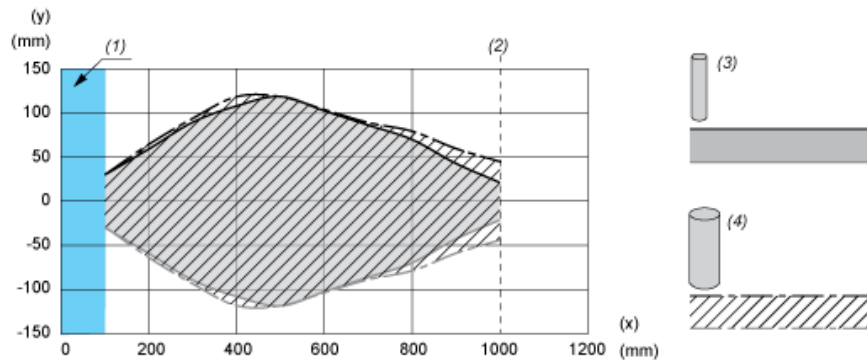
Performance Curves

Detection Curve with 100 x 100 mm / 3.94 x 3.94 in. Square Target



- (x) Target distance
- (y) Detection limit
- (1) : Blind zone: 105 mm
- (2) : Sn max.
- (3) : 100 x 100 mm / 3.94 x 3.94 in. stainless steel plate

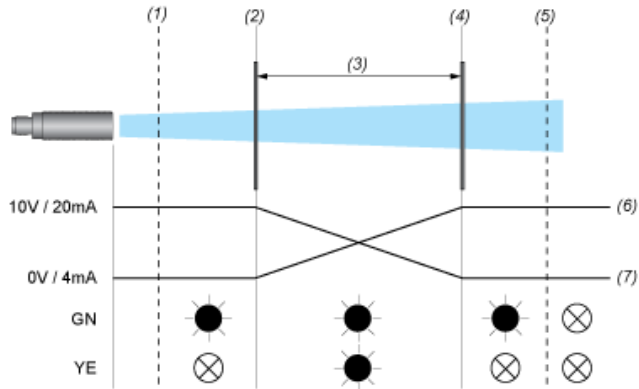
Detection Curve with Round Bar



- (x) Target distance
- (y) Detection limit
- (1) : Blind zone: 105 mm
- (2) : Sn max.
- (3) : Ø 10 mm / 0.394 in. stainless steel cylinder
- (4) : Ø 25 mm / 0.984 in. stainless steel cylinder

Operating Diagram

Near and Far Limits Setting with Teach Procedure



- (1) : Blind zone
- (2) : Near limit
- (3) : Sensing window
- (4) : Far limit
- (5) : Sn max
- (6) : Inverse
- (7) : Direct
- (8) : ON
- (9) : OFF
- GN : Green LED
- YE : Yellow LED