## Product data sheet Characteristics

# XXV18B1PAM12

Ultrasonic sensors XX, ultrasonic sensor, M18 metal, Sn 50 mm, PNP NO, M12





### Main

Range of product	Telemecanique Ultrasonic sensors XX
Sensor type	Ultrasonic sensor
Series name	General purpose
Sensor name	XXV
Sensor design	Cylindrical M18
Detection system	Diffuse
[Sn] nominal sensing distance	0.05 m fixed
Material	Metal
Type of output signal	Discrete
Discrete output function	1 NO
Wiring technique	3-wire
Discrete output type	PNP
[Us] rated supply voltage	1224 V DC with reverse polarity protection
Electrical connection	Male connector M12 4 pins
[Sd] sensing range	0.0030.05 m
Beam angle	10 °
IP degree of protection	IP67 conforming to IEC 60529
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#### Complementary

Enclosure material	Brass
Front material	Ероху
Thread type	M18 x 1
Supply voltage limits	1036 V DC
[Sa] assured operating distance	0.0030.05 m
Maximum differential travel	3 mm
Blind zone	03 mm
Transmission frequency	360 kHz
Repeat accuracy	1.5 %
Deviation angle from 90° of object to be detected	-88 °
Minimum size of detected object	Cylinder diameter 2 mm at 0.02 m
Status LED	Output state: 1 LED (yellow)
Current consumption	15 mA
Maximum switching current	200 mA with overload and short-circuit protection
Maximum voltage drop	2 V
Switching frequency	<= 80 Hz
Maximum delay first up	5 ms
Maximum delay response	4 ms
Maximum delay recovery	4 ms
Marking	CE
Threaded length	51 mm
Height	18 mm
Width	18 mm
Depth	75 mm
Net weight	0.05 kg

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### Environment

Standards	IEC 60947-5-2
Product certifications	cULus
Ambient air temperature for operation	060 °C
Ambient air temperature for storage	-4080 °C
Vibration resistance	+/- 2 mm conforming to IEC 60068-2-6 (f = 1055 Hz)
Shock resistance	50 gn in all 3 axes for 11 ms conforming to IEC 60068-2-27
Resistance to electrostatic discharge	8 kV level 4 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	1 kV level 3 conforming to IEC 61000-4-4

### **Packing Units**

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Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	77.111 g
Package 1 Height	8.636 cm
Package 1 width	4.064 cm
Package 1 Length	8.636 cm
Unit Type of Package 2	S03
Number of Units in Package 2	94
Package 2 Weight	7.582 kg
Package 2 Height	30 cm
Package 2 width	30 cm
Package 2 Length	40 cm

## Offer Sustainability

Sustainable offer status	Green Premium product
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
Circularity Profile	End of Life Information
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

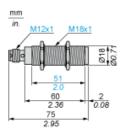
## Contractual warranty

Warranty	18 months
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# Product data sheet **Dimensions Drawings**

# XXV18B1PAM12

### **Dimensions**



# Product data sheet **Mounting and Clearance**

# XXV18B1PAM12

## Minimum Mounting Distances







e(1) 25 mm

e(2) 700 mm

e(3) 60 mm

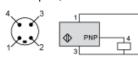
## Product data sheet **Connections and Schema**

# XXV18B1PAM12

## Wiring Diagram

## 3-Wire Type

NO outputs, PNP

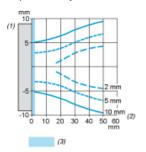


# XXV18B1PAM12

## Product data sheet **Performance Curves**

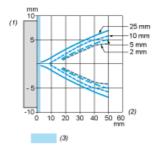
#### Curves

## **Square Object**



- Parallel movement
- Distance
- Blind zone for diffuse sensors.

## Cylindrical Object



- Parallel movement
- Distance
- (2) Blind zone for diffuse sensors.