Product data sheet Characteristics

XXV18B1PBM12

Ultrasonic sensor - M18 metal - Sn 50mm - PNP NC - M12



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Range of product	OsiSense 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 NC	
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	

Complementary

Enclosure material	Brass	4
Front material	Ероху	
Thread type	M18 x 1	<u>y</u> 0
Supply voltage limits	1036 V DC	
[Sa] assured operating distance	0.0030.05 m	3
Maximum differential travel	3 mm	<u>.</u>
Blind zone	03 mm	
Transmission frequency	360 kHz	r i
Repeat accuracy	1.5 %	<u> </u>
Deviation angle from 90° of object to be detected	-88 °	, F
Minimum size of detected object	Cylinder diameter 2 mm at 0.02 m	. i.

Status LED	1 LED (yellow) for output state
Current consumption	15 mA
Maximum switching current	200 mA with overload and short-circuit protection
Voltage drop	< 2 V
Switching frequency	<= 80 Hz
Delay first up	5 ms
Delay response	4 ms
Delay recovery	4 ms
Marking	CE
Threaded length	51 mm
Height	18 mm
Width	18 mm
Depth	75 mm
Product weight	0.05 kg

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 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

Offer Sustainability

RoHS (date code: YYWW)	Will not be compliant
	Will not be compliant

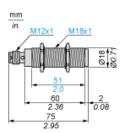
Contractual warranty

Warranty period	18 months	

Product data sheet Dimensions Drawings

XXV18B1PBM12

Dimensions



Product data sheet Mounting and Clearance

XXV18B1PBM12

Minimum Mounting Distances



e(1) > 25 mm e(2) > 700 mm e(3) > 60 mm

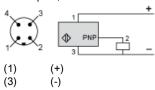
Product data sheet Connections and Schema

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Wiring Diagram

3-Wire Type

NC outputs, PNP

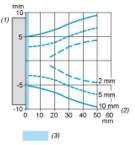


Product data sheet **Performance Curves**

XXV18B1PBM12

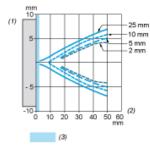
Curves

Square Object



- Parallel movement
- Distance
- (1) (2) (3) Blind zone for diffuse sensors.

Cylindrical Object



- Parallel movement
- Distance
- (1) (2) (3) Blind zone for diffuse sensors.