Product data sheet Characteristics

XX6V3A1PAM12

ultrasonic sensor cylindrical M30 - Sn 1 m - NO - M12 connector



Main Comn

Commercial Status	Commercialised
Range of product	OsiSense XX
Sensor type	Ultrasonic sensor
Series name	General purpose
Sensor name	XX6
Sensor design	Cylindrical M30
Detection system	Diffuse
[Sn] nominal sensing distance	1 m adjustable with remote teach push-button
Material	Plastic
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	0.11 m
Beam angle	7°
IP degree of protection	IP67 conforming to IEC 60529

Complementary

Enclosure material	Valox
Front material	Ероху
ISO thread	M30 x 1.5
Supply voltage limits	1028 V DC
[Sa] assured operating distance	0.11 m (teach mode)
Maximum differential travel	2.5 mm
Blind zone	0100 mm
Transmission frequency	180 kHz
Repeat accuracy	0.9 %
Deviation angle from 90° of object to be detected	-77 °
Minimum size of detected object	Cylinder diameter 50.8 mm up to 1 m sensing distance
Status LED	LED (yellow) for output state LED (green) for supply on LED (dual colour) for setting-up assistance
Current consumption	60 mA
Maximum switching current	100 mA with overload and short-circuit protection
Voltage drop	< 1.5 V
Switching frequency	<= 70 Hz
Delay first up	75 ms
Delay response	15 ms
Delay recovery	75 ms
Marking	CE
Threaded length	37 mm
Height	96 mm
Width	30 mm
Product weight	0.09 kg

Environment

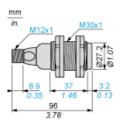
Standards	IEC 60947-5-2
Ambient air temperature for operation	070 °C
Ambient air temperature for storage	-4080 °C
Vibration resistance	+/-1 mm conforming to IEC 60068-2-6 1055 Hz
Shock resistance	30 gn in all 3 axes for 11 ms conforming to IEC 60068-2-27
Resistance to electrostatic discharge	8 kV level 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



Product data sheet Dimensions Drawings

XX6V3A1PAM12

Dimensions



Product data sheet Mounting and Clearance

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Minimum Mounting Distances

Side by side



e: respect the distances indicated on the detection curves

Face to face



e > 4 x Sn

Product data sheet Connections and Schema

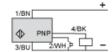
XX6V3A1PAM12

Wiring Diagram

3-Wire Type

NO outputs, PNP





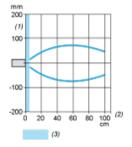
- (1) (+) (2) Teach in (3) (-) (4) Output Prown (+) Teach input (WH)

 - WH White
 - BU Blue
 - BK Black

Product data sheet Performance Curves

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Curves



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