Product data sheet
Characteristics

XX6V3A1PAM12
ultrasonic sensor cylindrical M30 - Sn 1 m - NO - M12 connector

Green Premium™

Main

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	3.28 ft (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	12...24 V DC with reverse polarity protection
Electrical connection	Male connector M12 4 pins
[Sd] sensing range	0.33…3.28 ft (0.1…1 m)
Beam angle	7 °
IP degree of protection	IP67 IEC 60529

Complementary

Enclosure material	Valox
Front material	Epoxy
Thread type	M30 x 1.5
Supply voltage limits	10…28 V DC
[Sa] assured operating distance	0.33…3.28 ft (0.1…1 m) teach mode)
Maximum differential travel	0.10 in (2.5 mm)
Blind zone	0.00…3.94 in (0…100 mm)

Transmission frequency	180 kHz
Repeat accuracy	0.9 %
Deviation angle from 90° of object to be detected	-7…7 °
Minimum size of detected object	Cylinder diameter 50.8 mm 3.28 ft (1 m)
Status LED	Setting-up assistance: 1 LED (dual colour) Supply on 1 LED green) Output state: 1 LED (yellow)
Current consumption	60 mA
Maximum switching current	100 mA with overload and short-circuit protection
Maximum voltage drop	1.5 V
Switching frequency	<= 70 Hz
Maximum delay first up	75 ms
Maximum delay response	15 ms
Maximum delay recovery	75 ms
Marking	CE
Threaded length	1.46 in (37 mm)
Height	3.78 in (96 mm)
Width	1.18 in (30 mm)
Net weight	0.20 lb(US) (0.09 kg)

Environment

Standards	IEC 60947-5-2
Product certifications	UL CCSAus
Ambient air temperature for operation	32…158 °F (0…70 °C)
Ambient air temperature for storage	-40…176 °F (-40…80 °C)
Vibration resistance	+/-1 mm 10…55 Hz)IEC 60068-2-6
Shock resistance	30 gn in all 3 axes 11 ms IEC 60068-2-27
Resistance to electrostatic discharge	8 kV level 4 IEC 61000-4-2
Resistance to electromagnetic fields	9.14 V/yd (10 V/m) level 3 IEC 61000-4-3
Resistance to fast transients	1 kV level 3 IEC 61000-4-4

Packing Units

Package 1 Weight	3.68 oz (104.326 g)
Package 1 Height	1.70 in (4.318 cm)
Package 1 width	3.70 in (9.398 cm)
Package 1 Length	5.20 in (13.208 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
Circularity Profile	End of Life Information

Contractual warranty

Warranty	18 months

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