



Main

Range of product	OsiSense XX
Sensor type	Ultrasonic sensor
Series name	General purpose
Sensor name	XX7
Sensor design	Flat form 74 x 30 x 16
Detection system	Diffuse
[Sn] nominal sensing distance	0.82 ft (0.25 m) fixed
Material	Plastic
Type of output signal	Discrete
Discrete output function	1 NO
Wiring technique	3-wire
Discrete output type	NPN
[Us] rated supply voltage	12...24 V DC with reverse polarity protection
Electrical connection	Male connector M12 4 pins
[Sd] sensing range	0.17...0.83 ft (0.051...0.254 m)
Beam angle	14 °
IP degree of protection	IP67 IEC 60529

Complementary

Enclosure material	ULTEM
Front material	Silicone
Supply voltage limits	10...28 V DC
[Sa] assured operating distance	0.17...0.83 ft (0.051...0.254 m)
Maximum differential travel	0.01 in (0.35 mm)
Blind zone	0.00...2.01 in (0...51 mm)
Transmission frequency	500 kHz

Repeat accuracy	0.7 %
Minimum size of detected object	Cylinder diameter 1.6 mm
Status LED	Supply on 1 LED green) Output state: 1 LED (yellow)
Current consumption	60 mA
Maximum switching current	100 mA
Maximum voltage drop	1 V
Switching frequency	<= 80 Hz
Maximum delay first up	350 ms
Maximum delay response	5 ms
Maximum delay recovery	5 ms
Marking	CE
Height	1.18 in (30 mm)
Width	0.67 in (17 mm)
Depth	3.35 in (85 mm)
Net weight	0.11 lb(US) (0.05 kg)

Environment

Standards	IEC 60947-5-2
Product certifications	UL
Ambient air temperature for operation	32...122 °F (0...50 °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	0.13 lb(US) (0.060 kg)
Package 1 Height	0.360 dm
Package 1 width	0.360 dm
Package 1 Length	0.950 dm

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

Contractual warranty

Warranty	18 months
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