



Main

Range of product	OsiSense XX
Sensor type	Ultrasonic sensor
Sensor name	XX9
Material	PBT (polybutylene terephthalate)
Sensor design	Ø 18 mm
Product specific application	Analog output
Type of output signal	Analogue
Wiring technique	4 wires
[Us] rated supply voltage	15...24 V DC reverse polarity protection
Electrical connection	Cable, 6.56 ft (2 m)
[Sd] sensing range	2.75...4.00 in (69.9...101.6 mm)
Beam angle	10 °
IP degree of protection	IP67 IEC 60529

Complementary

Enclosure material	ULTEM
Front material	Silicone
ISO thread	M18 x 1
Supply voltage limits	10...28 V DC
Analogue output range	0...10 V inverse
[Sn] nominal sensing distance	4.00 in (101.6 mm)
Sensing window	69.9
Type of sensing window	Fixed
[Sa] assured operating distance	0.13...9.00 in (3.18...228.6 mm) no teach mode)
Blind zone	2.01 in (51 mm)
Transmission frequency	500 kHz

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Repeat accuracy	1.27 %
Minimum size of detected object	Cylinder diameter 1.6 mm - up to 63.5 mm sensing distance
Status LED	Setting-up assistance 2 LEDs green/yellow (flashing) Output state 2 LEDs green/yellow
Current consumption	50 mA
Maximum switching current	100 mA with overload and short-circuit protection
Maximum switching capacity	1 kOhm overload and short-circuit protection
Maximum delay response	2.5 ms
Maximum delay recovery	1000 ms
Marking	CE
Height	0.71 in (18 mm)
Width	0.71 in (18 mm)
Depth	0.71 in (18 mm)
Length	2.55 in (64.77 mm)
CAD overall height	0.71 in (18 mm)
CAD overall width	0.71 in (18 mm)
CAD overall depth	0.71 in (18 mm)
Net weight	0.37 lb(US) (0.17 kg)

Environment

Standards	IEC 60947-5-2
Product certifications	UL
NEMA degree of protection	NEMA 4X indoor use only)
Ambient air temperature for operation	32...140 °F (0...60 °C)
Ambient air temperature for storage	-40...212 °F (-40...100 °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	4.10 lb(US) (1.860 kg)
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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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