



Main

Range of product	OsiSense XX
Sensor type	Ultrasonic sensor
Sensor name	XX5
Material	Valox
Sensor design	Ø 18 mm
Product specific application	Optimum and universal
Type of output signal	Discrete
Wiring technique	4 wires
[Us] rated supply voltage	12...24 V DC reverse polarity protection
Discrete output function	1 NC
Discrete output type	NPN
Electrical connection	1 male connector M12 4 pins
[Sd] sensing range	2.00...20.00 in (50.8...508 mm)
Beam angle	5 °
IP degree of protection	IP67 IEC 60529

Complementary

Enclosure material	ULTEM
Front material	Glass epoxy
ISO thread	M18 x 1
Supply voltage limits	10...28 V DC
[Sn] nominal sensing distance	20.00 in (508 mm)
Type of sensing window	Adjustable
[Sa] assured operating distance	2.01...20.00 in (51...508 mm) teach mode)
Maximum differential travel	0.10 in (2.5 mm)
Blind zone	2.01 in (51 mm)
Transmission frequency	300 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 %
Deviation angle from 90° of object to be detected	-10...10 °
Minimum size of detected object	Cylinder diameter 2.5 mm - up to 254 mm sensing distance
Status LED	Setting-up assistance 2 LEDs green/yellow (flashing) Output state 2 LEDs green/yellow
Current consumption	40 mA
Maximum switching current	100 mA with overload and short-circuit protection
Maximum voltage drop	<1 V
Switching frequency	40 Hz
Maximum delay first up	100 ms
Maximum delay response	15 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	3.06 in (77.62 mm)
CAD overall height	0.03 in (0.654 mm)
CAD overall width	0.71 in (18 mm)
CAD overall depth	0.71 in (18 mm)
Net weight	0.07 lb(US) (0.033 kg)

Environment

Standards	IEC 60947-5-2
Product certifications	UL
NEMA degree of protection	NEMA 4X indoor use only)
Ambient air temperature for operation	-22...158 °F (-30...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	12.80 oz (362.874 g)
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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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