

Main

Range of product	OsiSense XX
Sensor type	Ultrasonic sensor
Sensor name	XX5
Material	PBT (polybutylene terephthalate)
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 NO
Discrete output type	NPN
Electrical connection	1 male connector M12 4 pins
[Sd] sensing range	7.99...10.00 in (203...254 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
[Sn] nominal sensing distance	10.00 in (254 mm)
Sensing window	203
Type of sensing window	Adjustable
[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
Repeat accuracy	0.7 %
Minimum size of detected object	Cylinder diameter 1.6 mm - up to 76.2 mm sensing distance
Status LED	Setting-up assistance 2 LEDs green/yellow (flashing) Output state 2 LEDs green/yellow)
Current consumption	60 mA
Maximum switching current	100 mA overload and short-circuit protection
Maximum voltage drop	<1 V
Switching frequency	40 Hz
Maximum delay response	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	2.91 in (73.91 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	0.24 lb(US) (0.11 kg)

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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/m (10 V/m) level 3 IEC 61000-4-3
Resistance to fast transients	1 kV level 3 IEC 61000-4-4

Ordering and shipping details

Category	22490 - SENSORS-ULTRASONIC (XX5,6)
Discount Schedule	DS2
GTIN	03389119129190
Nbr. of units in pkg.	1
Package weight(Lbs)	0.11 lb(US) (0.05 kg)
Returnability	No
Country of origin	US

Offer Sustainability

California proposition 65	WARNING: This product can expose you to chemicals including: Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, and Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov
REACH Regulation	 REACH Declaration
EU RoHS Directive	Not applicable, out of EU RoHS legal scope

Contractual warranty

Warranty	18 months
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