



Main

Range of product	OsiSense XX
Sensor type	Ultrasonic sensor
Series name	General purpose
Sensor name	XXB
Sensor design	Cylindrical M18
Detection system	Reflex
[Sn] nominal sensing distance	1.64 ft (0.5 m) adjustable with remote teach push-button
Material	Plastic
Type of output signal	Discrete
Discrete output function	1 NO
Wiring technique	4-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	0.00...1.67 ft (0...0.508 m)
Beam angle	6 °
IP degree of protection	IP67 IEC 60529

Complementary

Enclosure material	Valox
Front material	Epoxy
Thread type	M18 x 1
Supply voltage limits	10...28 V DC
[Sa] assured operating distance	0.00...1.67 ft (0...0.508 m) teach mode)
Maximum differential travel	0.10 in (2.5 mm)
Blind zone	0.00...6.50 in (0...165 mm)
Transmission frequency	300 kHz
Repeat accuracy	1.27 %
Deviation angle from 90° of object to be detected	-7...7 °

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

Minimum size of detected object	Cylinder diameter 2.5 mm 0.49 ft (0.15 m)
Status LED	Supply on/output state 1 LED 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	10 ms
Maximum delay recovery	10 ms
Marking	CE
Threaded length	1.69 in (43 mm)
Height	0.71 in (18 mm)
Width	0.71 in (18 mm)
Depth	3.11 in (79 mm)
Net weight	0.07 lb(US) (0.033 kg)

Environment

Standards	IEC 60947-5-2
Product certifications	UL
Ambient air temperature for operation	-4...149 °F (-20...65 °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

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	1.62 oz (46 g)
Package 1 Height	2.60 in (6.6 cm)
Package 1 width	1.61 in (4.1 cm)
Package 1 Length	3.74 in (9.5 cm)
Unit Type of Package 2	S03
Number of Units in Package 2	80
Package 2 Weight	9.53 lb(US) (4.324 kg)
Package 2 Height	11.81 in (30 cm)
Package 2 width	11.81 in (30 cm)
Package 2 Length	15.75 in (40 cm)

Offer Sustainability

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

Contractual warranty

Warranty	18 months
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