

Main

Commercial Status	Commercialised
Range of product	OsiSense XX
Sensor type	Ultrasonic sensor
Sensor name	XX7
Material	Valox
Sensor design	Flat form + cylindrical M18
Product specific application	Optimum and universal
Type of output signal	Discrete
Wiring technique	4 wires
[Us] rated supply voltage	12...24 V DC with reverse polarity protection
Discrete output function	1 NC
Discrete output type	NPN
Electrical connection	1 male connector M12, 4 pins
[Sd] sensing range	2...20 in (50.8...508 mm)
Beam angle	5 °
IP degree of protection	IP67 conforming to 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 in (508 mm)
Type of sensing window	Fixed
[Sa] assured operating distance	2.01...20 in (51...508 mm) (teach mode)
Maximum differential travel	<= 0.1 in (2.5 mm)
Blind zone	2.01 in (51 mm)
Transmission frequency	300 kHz
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	2 LEDs (green/yellow) for output state 2 LEDs (green/yellow (flashing)) for setting-up assistance
Current consumption	40 mA
Maximum switching current	100 mA with overload and short-circuit protection
Voltage drop	<= 1 V
Switching frequency	40 Hz
Delay first up	100 ms
Delay response	15 ms
Delay recovery	1000 ms
Marking	CE
Height	1.72 in (43.7 mm)
Width	0.71 in (18 mm)
Depth	1.72 in (43.7 mm)
Length	2.35 in (59.69 mm)
CAD overall height	2.58 in (65.61 mm)

CAD overall width	0.71 in (18 mm)
CAD overall depth	0.71 in (18 mm)
Product weight	0.07 lb(US) (0.033 kg)

Environment

Standards	IEC 60947-5-2
Product certifications	UL
NEMA degree of protection	NEMA 4X for 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 (f = 10...55 Hz) conforming to IEC 60068-2-6
Shock resistance	30 gn for 11 ms (in all 3 axes) conforming to IEC 60068-2-27
Resistance to electrostatic discharge	8 kV, level 4 conforming to IEC 61000-4-2
Resistance to electromagnetic fields	9.14 V/yd (10 V/m), level 3 conforming to IEC 61000-4-3
Resistance to fast transients	1 kV, level 3 conforming to IEC 61000-4-4

Ordering and shipping details

Category	22490 - SENSORS-ULTRASONIC (XX5,6)
Discount Schedule	DS2
GTIN	00785901613336
Nbr. of units in pkg.	1
Package weight(Lbs)	0.80
Product availability	Non-Stock - Not normally stocked in distribution facility
Returnability	Y
Country of origin	US

Contractual warranty

Period	18 months
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