Product data sheet
Characteristics

XXSC956A8V0
30mm ultrasonic sensor, 8m, M12 conn.

Product availability: Non-Stock - Not normally stocked in distribution facility

Main

Commercial Status	Commercialised
Range of product	OsiSense XX
Sensor type	Ultrasonic sensor
Sensor name	XXS
Material	PBT (polybutylene terephthalate)
Sensor design	Ø 30 mm
Product specific application	Analog output
Type of output signal	Analogue
Wiring technique	4 wires
[Us] rated supply voltage	15...24 V DC with reverse polarity protection
Electrical connection	1 male connector M12, 4 pins
[Sd] sensing range	0.67...26.25 ft (0.203...8 m)
Beam angle	10 °
IP degree of protection	IP67 conforming to IEC 60529

Complementary

Enclosure material	ULTEM
Front material	Glass epoxy
ISO thread	M30 x 1.5
Supply voltage limits	10...28 V DC
Analogue output range	Voltage
[Sn] nominal sensing distance	26.25 ft (8 m)
Type of sensing window	Adjustable
[Sa] assured operating distance	0.67...26.25 ft (0.203...8 m) (configurator software)
Maximum differential travel	<= 0.1 in (2.5 mm)
Blind zone	7.99 in (203 mm)
Transmission frequency	75 kHz
Repeat accuracy	0.254 %
Deviation angle from 90° of object to be detected	-5...5 °
Minimum size of detected object	Cylinder diameter 50.8 mm up to 4732 mm sensing distance
Status LED	2 LEDs (yellow) for distance indication 2 LEDs (green/red (flashing)) for setting-up assistance 2 LEDs (green/red (flashing)) for output state
Current consumption	100 mA
Maximum switching current	100 mA with overload and short-circuit protection
Maximum switching capacity	1 kOhm with overload and short-circuit protection
Delay first up	800 ms
Delay recovery	1000 ms
Marking	CE
Height	1.18 in (30 mm)
Width	1.18 in (30 mm)
Depth	1.18 in (30 mm)
Length	4.62 in (117.35 mm)
CAD overall height	4.62 in (117.35 mm)
CAD overall width	1.7 in (43.18 mm)
CAD overall depth	1.7 in (43.18 mm)
Product weight	0.24 lb(US) (0.11 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	-4...140 °F (-20...60 °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	003389119127929
Nbr. of units in pkg.	1
Package weight(Lbs)	0.30
Product availability	Non-Stock - Not normally stocked in distribution facility
Returnability	Y
Country of origin	US

Contractual warranty

Period	18 months

Mouser Electronics

Authorized Distributor

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