Product datasheet
Characteristics

XX930A96M12

Main

Range of product	OsiSense XX
Sensor type	Ultrasonic sensor
Sensor name	XX9
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	4...20 mA autoslope
[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) (teach mode)
Maximum differential travel	<= 0.1 in (2.5 mm)
Blind zone	2.01 in (51 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 (green/red (flashing)) output state 2 LEDs (green/red (flashing)) setting-up assistance 2 LEDs (yellow) distance indication
Current consumption	100 mA
Maximum switching current	100 mA with overload and short-circuit protection
Maximum switching capacity	10...500 Ohm with overload and short-circuit protection
Delay first up	75 ms
Delay response	2.5 s
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 indoor use only
ambient air temperature for operation	-4...140 °F (-20...60 °C)
ambient air temperature for storage	14...176 °F (-10...80 °C)
vibration resistance	+/-1 mm (f = 10...55 Hz) conforming to IEC 60068-2-6
shock resistance	30 gn 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

Offer Sustainability

WARNING: This product can expose you to chemicals including:	WARNING: This product can expose you to chemicals including:
Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, and	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.	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	For more information go to www.p65warnings.ca.gov

Contractual warranty

Warranty period	18 months