

Main

Commercial Status	Commercialised
Range of product	OsiSense XX
Sensor type	Ultrasonic sensor
Series name	General purpose
Sensor name	XX9
Sensor design	Cylindrical M30
Detection system	Diffuse
[Sn] nominal sensing distance	1 m adjustable with teach pushbutton
Material	Plastic
Type of output signal	Analogue
Wiring technique	4-wire
Analogue output function	0...10 V
[Us] rated supply voltage	15...24 V DC with reverse polarity protection
Electrical connection	Male connector M12 4 pins
[Sd] sensing range	0.051...0.991 m
Beam angle	10 °
IP degree of protection	IP65 conforming to IEC 60529

Complementary

Enclosure material	ULTEM
Front material	Silicone
ISO thread	M30 x 1.5
Supply voltage limits	10...28 V DC
[Sa] assured operating distance	0.051...0.991 m (teach mode)
Blind zone	0...51 mm
Transmission frequency	200 kHz
Repeat accuracy	0.9 %
Deviation angle from 90° of object to be detected	-8...8 °
Minimum size of detected object	Cylinder diameter 1.6 mm up to 635 mm sensing distance
Status LED	1 LED (yellow) for output state 1 LED (green) for supply on 1 LED (dual colour) for setting-up assistance
Current consumption	60 mA
Maximum switching capacity	>= 1 kOhm with overload and short-circuit protection
Setting-up	Slope selection using teach button
Delay first up	720 ms
Delay response	25 ms
Delay recovery	25 ms
Marking	CE
Threaded length	45 mm
CAD overall height	35 mm
CAD overall width	35 mm
CAD overall depth	85 mm
Product weight	0.095 kg

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Environment

Standards	IEC 60947-5-2
Ambient air temperature for operation	0...50 °C
Ambient air temperature for storage	-40...80 °C
Vibration resistance	+/-1 mm conforming to IEC 60068-2-6 10...55 Hz
Shock resistance	30 gn in all 3 axes for 11 ms conforming to IEC 60068-2-27
Resistance to electrostatic discharge	8 kV level 4 conforming to IEC 61000-4-2
Resistance to electromagnetic fields	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

RoHS compliance

RoHS EUR status	Compliant
RoHS EUR conformity date(Y Y W W)	1140

Contractual warranty

Period	18 months
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