

Main

Commercial Status	Commercialised
Range of product	OsiSense XX
Sensor type	Ultrasonic sensor
Series name	General purpose
Sensor name	XX9
Sensor design	Flat form 18 x 33 x 60 + cylindrical M18
Detection system	Diffuse
[Sn] nominal sensing distance	0.5 m adjustable with remote teach pushbutton
Material	Plastic
Type of output signal	Analogue
Wiring technique	4-wire
Analogue output function	0...10 V
[Us] rated supply voltage	12...24 V DC with reverse polarity protection
Electrical connection	Male connector M12 4 pins
[Sd] sensing range	0.051...0.508 m
Beam angle	6 °
IP degree of protection	IP67 conforming to IEC 60529

Complementary

Enclosure material	Valox
Front material	Epoxy
ISO thread	M18 x 1
Supply voltage limits	10...28 V DC
[Sa] assured operating distance	0.051...0.508 m (teach mode)
Blind zone	0...51 mm
Transmission frequency	300 kHz
Repeat accuracy	1.27 %
Deviation angle from 90° of object to be detected	-7...7 °
Minimum size of detected object	Flat bar 1 mm wide up to 150 mm sensing distance Cylinder diameter 2.5 mm up to 150 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	40 mA
Maximum switching capacity	>= 1 kOhm with overload and short-circuit protection
Setting-up	Slope selection using teach button
Delay first up	100 ms
Delay response	15 ms
Delay recovery	10 ms
Marking	CE
Threaded length	20 mm
CAD overall height	65 mm
CAD overall width	44 mm
CAD overall depth	18 mm
Product weight	0.09 kg

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Environment

Standards	IEC 60947-5-2
Ambient air temperature for operation	-20...65 °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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