



## Main

Range of product	OsiSense XX
Sensor type	Ultrasonic sensor
Series name	General purpose
Sensor name	XX9
Material	Plastic
Sensor design	Cylindrical M18
Type of output signal	Analogue
Wiring technique	4 wires
[Us] rated supply voltage	12...24 V DC with reverse polarity protection
Electrical connection	4 pins M12 male connector
[Sd] sensing range	0.051...0.508 m
[Sn] nominal sensing distance	500 mm adjustable with remote teach pushbutton
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
Analogue output function	0...10 V
[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	Cylinder diameter 1.6 mm
Status LED	1 LED (dual colour) for setting-up assistance 1 LED (green) for supply on 1 LED (yellow) for output state
Current consumption	40 mA
Maximum switching capacity	>= 1 kOhm with overload and short-circuit protection
Voltage drop	< 1 V
Setting-up	Slope selection using teach button
Delay first up	100 ms
Delay response	25 ms
Delay recovery	25 ms
Marking	CE
Threaded length	43 mm
Product weight	0.033 kg

## 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 EUR conformity date	4Q2009
RoHS EUR status	Will be compliant