

## Main

Commercial Status	Commercialised
Range of product	OsiSense XX
Sensor type	Ultrasonic sensor
Series name	General purpose
Sensor name	XX5
Sensor design	Cylindrical M12
Detection system	Diffuse
[Sn] nominal sensing distance	0.1 m fixed
Material	Plastic
Type of output signal	Discrete
Discrete output function	1 NO
Wiring technique	3-wire
Discrete output type	PNP
[Us] rated supply voltage	12...24 V DC with reverse polarity protection
Electrical connection	Male connector M8 3 pins
[Sd] sensing range	0.0064...0.102 m
Beam angle	10 °
IP degree of protection	IP67 conforming to IEC 60529

## Complementary

Enclosure material	ULTEM
Front material	Epoxy
ISO thread	M12 x 1
Supply voltage limits	10...28 V DC
[Sa] assured operating distance	0.0064...0.102 m
Maximum differential travel	0.7 mm
Blind zone	0...6.4 mm
Transmission frequency	500 kHz
Repeat accuracy	0.7 %
Deviation angle from 90° of object to be detected	-10...10 °
Minimum size of detected object	Flat bar 1 mm wide Cylinder diameter 2.5 mm
Status LED	1 LED (yellow) for output state 1 LED (green) for supply on
Current consumption	25 mA
Maximum switching current	100 mA with overload and short-circuit protection
Voltage drop	< 1 V
Switching frequency	<= 125 Hz
Delay first up	20 ms
Delay response	3 ms
Delay recovery	3 ms
Marking	CE
Threaded length	38 mm
CAD overall height	12 mm
CAD overall width	12 mm
CAD overall depth	50 mm
Product weight	0.011 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 compliance

RoHS EUR status	Compliant
RoHS EUR conformity date(YYYY)	1140

## Contractual warranty

Period	18 months
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