



Main

Range of product	OsiSense XX
Sensor type	Ultrasonic sensor
Series name	General purpose
Sensor name	XX7
Material	Plastic
Sensor design	Flat form 74 x 30 x 16
Type of output signal	Discrete
Wiring technique	3 wires
[Us] rated supply voltage	12...24 V DC with reverse polarity protection
Discrete output function	1 NO
Discrete output type	PNP
Electrical connection	4 pins M12 male connector
[Sd] sensing range	0.051...0.254 m
[Sn] nominal sensing distance	250 mm fixed
Beam angle	14 °
IP degree of protection	IP67 conforming to IEC 60529

Complementary

Enclosure material	ULTEM
Front material	Silicone
Supply voltage limits	10...28 V DC
[Sa] assured operating distance	0.051...0.254 m
Maximum differential travel	0.35 mm
Blind zone	0...51 mm
Transmission frequency	500 kHz
Repeat accuracy	0.7 %
Minimum size of detected object	Cylinder diameter 1.6 mm
Status LED	1 LED (yellow) for output state 1 LED (green) for supply on
Current consumption	60 mA
Maximum switching current	100 mA
Voltage drop	< 1 V
Switching frequency	<= 80 Hz
Delay first up	350 ms
Delay response	5 ms
Delay recovery	5 ms
Marking	CE
Width	16 mm
Product weight	0.05 kg

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 EUR conformity date	4Q2009
RoHS EUR status	Will be compliant