



Main

Range of product	OsiSense XX
Sensor type	Ultrasonic sensor
Series name	General purpose
Sensor name	XX7
Material	Plastic
Sensor design	Flat form 18 x 33 x 60 + cylindrical M18
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...0.508 m
[Sn] nominal sensing distance	500 mm adjustable with remote teach pushbutton
Beam angle	12 °
IP degree of protection	IP67 conforming to IEC 60529

Complementary

Enclosure material	Valox
Front material	Epoxy
Supply voltage limits	10...28 V DC
[Sa] assured operating distance	0.051...0.508 m (teach mode)
Maximum differential travel	2.5 mm
Blind zone	0...51 mm
Transmission frequency	300 kHz
Repeat accuracy	1.27 %
Minimum size of detected object	Cylinder diameter 2.5 mm up to 150 mm sensing distance Flat bar 1 mm wide up to 150 mm sensing distance
Status LED	1 LED (yellow) for output state 1 LED (green) for supply on
Current consumption	40 mA
Maximum switching current	100 mA
Voltage drop	< 1 V
Switching frequency	<= 40 Hz
Delay first up	100 ms
Delay response	10 ms
Delay recovery	10 ms
Marking	CE
Width	18 mm
Product weight	0.06 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