Product data sheet
Characteristics

XX512A2PAM8
ultrasonic sensor cylindrical M12 - Sn 0.1 m - NO - M8 connector

Main

Range of product	OsiSense XX
Sensor type	Ultrasonic sensor
Series name	General purpose
Sensor name	XX5
Material	Plastic
Sensor design	Cylindrical M12
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	3 pins M8 male connector
[Sd] sensing range	0.0064...0.102 m
[Sn] nominal sensing distance	100 mm fixed
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	Cylinder diameter 2.5 mm Flat bar 1 mm wide
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
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 EUR conformity date	4Q2009
RoHS EUR status	Will be compliant