Product data sheet
Characteristics

XX7F1A2PAL01M12
ultrasonic sensor parallelepipedic - Sn 0.1 m - NO - pre-cabled M12 0.15m



Main

Range of product	OsiSense XX
Sensor type	Ultrasonic sensor
Series name	General purpose
Sensor name	XX7
Sensor design	Flat form 33 x 19 x 7.6
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	Remote male connector M12 4 pins, 0.15 m cable length
[Sd] sensing range	0.0064...0.102 m
Beam angle	14 °
IP degree of protection	IP67 conforming to IEC 60529

Complementary

Enclosure material	ULTEM
Front material	Epoxy
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 %
Minimum size of detected object	Cylinder diameter 2.5 mm Flat bar 1 mm wide
Status LED	1 LED (green) for supply on 1 LED (yellow) for output state
Current consumption	25 mA
Maximum switching current	100 mA
Voltage drop	< 1 V
Switching frequency	<= 100 Hz
Delay first up	20 ms
Delay response	4 ms
Delay recovery	4 ms
Marking	CE
Height	19 mm
Width	8 mm
Depth	33 mm
Product weight	0.04 kg

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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

Offer Sustainability

Sustainable offer status	Not Green Premium product
RoHS (date code: YYWW)	Compliant - since 1140 - Schneider Electric declaration of conformity
REACh	Reference contains SVHC above the threshold - go to CaP for more details