Product data sheet
Characteristics

XX7F1A2PAL01M12
Ultrasonic sensors XX, ultrasonic sensor parallelepipedic, Sn 0.1 m, NO, pre cabled M12 0.15 m



Main

Range of product	Telemecanique Ultrasonic sensors 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	Supply on: 1 LED (green) Output state: 1 LED (yellow)
Current consumption	25 mA
Maximum switching current	100 MA
Maximum voltage drop	1 V

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Maximum delay first up	20 Ms
Maximum delay response	4 Ms
Maximum delay recovery	4 Ms
Marking	CE
Height	19 Mm
Width	8 Mm
Depth	33 Mm
Net weight	0.04 Kg

Environment

Standards	IEC 60947-5-2
Product certifications	UL
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 (f = 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

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	32.0 G
Package 1 Height	9.5 Cm
Package 1 width	7.1 Cm
Package 1 Length	3.6 Cm
Unit Type of Package 2	S01
Number of Units in Package 2	15
Package 2 Weight	947.0 G
Package 2 Height	15 Cm
Package 2 width	15 Cm
Package 2 Length	40 Cm

Offer Sustainability

Sustainable offer status	Green Premium product
REACh Regulation	REACh Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End Of Life Information

Contractual warranty

Warranty	18 months

Product Life Status : Commercialised