Product data sheet
Characteristics

XXTF1A8M12L
ultrasonic sensor parallelepipedic 7x19x33 - transmitter Sn 0.2m - M12 connector

Green Premium™

Main

Range of product	Telemecanique Ultrasonic sensors XX
Sensor type	Ultrasonic sensor transmitter
Series name	General purpose
Sensor name	XXT
Sensor design	Flat form 33 x 19 x 7.6
Detection system	Thru beam (need a receiver)
[Sn] nominal sensing distance	0.2 m
Material	Plastic
Wiring technique	2-wire
[Us] rated supply voltage	12...24 V DC with reverse polarity protection
Electrical connection	Male connector M12 4 pins
[Sd] sensing range	0…0.2 m
Beam angle	10 °
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…0.2 m
Transmission frequency	500 kHz
Repeat accuracy	0.79 %
Minimum size of detected object	Cylinder diameter 12 mm at 0.2 m
Current consumption	50 mA
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

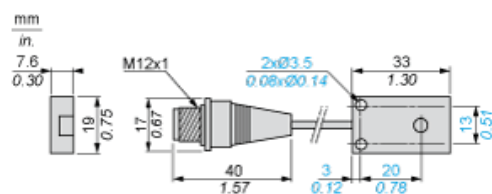|	
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	4.1 cm
Package 1 Width	6.5 cm
Package 1 Length	9.5 cm
Package 1 Weight	37.013 g

Offer Sustainability

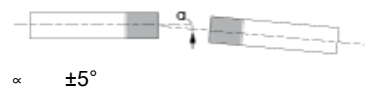|	
Sustainable offer status	Green Premium product
REACh Regulation	REACh Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
Mercury free	Yes
RoHS exemption information	Yes

Contractual warranty

Warranty	18 months

Dimensions

Minimum Mounting Distances

∝   ±5°

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Wiring Diagram

(1)   (+)
(3)   (-)
BN   Brown
BU   Blue