

# Product data sheet

## Characteristics

# XXT18A3M12

ultrasonic sensor cylindrical M18 - transmitter  
Sn 0.6 m - M12 connector



## Main

Range of product	Telemecanique Ultrasonic sensors XX
Sensor type	Ultrasonic sensor transmitter
Series name	General purpose
Sensor name	XXT
Sensor design	Cylindrical M18
Detection system	Thru beam (need a receiver)
[Sn] nominal sensing distance	0.6 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...0.6 m
Beam angle	6 °
IP degree of protection	IP67 conforming to IEC 60529

## Complementary

Enclosure material	ULTEM
Front material	Silicone
Thread type	M18 x 1
Supply voltage limits	10...28 V DC
[Sa] assured operating distance	0...0.6 m
Transmission frequency	300 kHz
Repeat accuracy	1.27 %
Minimum size of detected object	Cylinder diameter 38 mm at 0.6 m
Current consumption	40 mA
Marking	CE
Threaded length	51 mm
Height	18 mm
Width	18 mm
Depth	65 mm
Net weight	0.033 kg



## Environment

Standards	IEC 60947-5-2
Product certifications	UL
Ambient air temperature for operation	0...60 °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	4.2 cm
Package 1 Width	6.6 cm
Package 1 Length	9.5 cm
Package 1 Weight	52 g
Unit Type of Package 2	S02
Number of Units in Package 2	22
Package 2 Height	15 cm
Package 2 Width	30 cm
Package 2 Length	40 cm
Package 2 Weight	1.573 kg

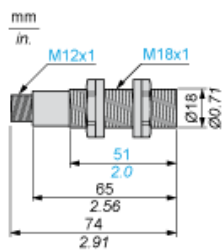
## Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	 <a href="#">REACH Declaration</a>
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
Mercury free	Yes
RoHS exemption information	 <a href="#">Yes</a>

## Contractual warranty

Warranty	18 months
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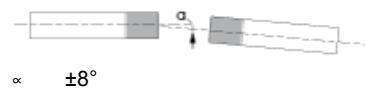
## Dimensions



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### Minimum Mounting Distances

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## Wiring Diagram



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