

# XXR12A8KBM8

Ultrasonic sensors XX, ultrasonic sensor cylindrical M12, receiver, Sn 0.2 m, 2NC, M8 connector



## Main

Range of product	Telemecanique Ultrasonic sensors XX
Sensor type	Ultrasonic sensor receiver
Series name	General purpose
Sensor name	XXR
Sensor design	Cylindrical M12
Detection system	Thru beam (need a transmitter XXT12A8M12)
[Sn] nominal sensing distance	0.2 m fixed
Material	Plastic
Type of output signal	Discrete
Discrete output function	2 NC
Wiring technique	4-wire
Discrete output type	PNP and NPN
[Us] rated supply voltage	12...24 V DC with reverse polarity protection
Electrical connection	Male connector M8 4 pins
[Sd] sensing range	0...0.2 m
IP degree of protection	IP67 conforming to IEC 60529

## Complementary

Enclosure material	ULTEM
Front material	Epoxy
Thread type	M12 x 1
Supply voltage limits	10...28 V DC
[Sa] assured operating distance	0...0.2 m
Current consumption	50 mA
Maximum switching current	100 mA with overload and short-circuit protection
Maximum voltage drop	1 V
Switching frequency	<= 125 Hz
Maximum delay first up	100 ms
Maximum delay response	20 ms
Maximum delay recovery	4 ms
Marking	CE
Threaded length	38 mm
Height	12 mm
Width	12 mm
Depth	50 mm
Net weight	0.011 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	6.6 cm
Package 1 Length	9.6 cm
Package 1 Weight	29.983 g

### Offer Sustainability

Sustainable offer status	Green Premium product
California proposition 65	WARNING: This product can expose you to chemicals including: Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, and Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>
For all Reach Rohs enquiries contact us at	<a href="mailto:sustainability@tesensors.com">sustainability@tesensors.com</a>

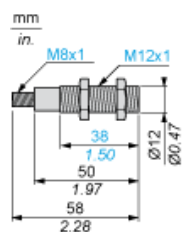
### Contractual warranty

Warranty	18 months
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Dimensions

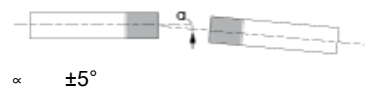
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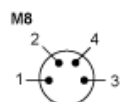
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### Minimum Mounting Distances

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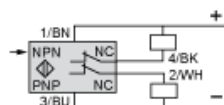


## Wiring Diagram



- (1) (+)
- (2) (PNP)
- (3) (-)
- (4) (NPN)

NPN, PNP, NC



BN Brown  
WH White  
BU Blue  
BK Black