XX230A22NA00M12

ultrasonic sensor cylindrical M30 - 2 levels - Sn 2 m - 2 NO - M12



Main

Range of product	Telemecanique Ultrasonic sensors XX	
Sensor type	Ultrasonic sensor	
Series name	General purpose	
Sensor name	XX2	
Sensor design	Cylindrical M30	
Detection system	Diffuse	
[Sn] nominal sensing distance	2 m adjustable with teach push-button	
Material	Plastic	
Type of output signal	Discrete	
Discrete output function	2 NO	
Wiring technique	4-wire	
Discrete output type	NPN	
[Us] rated supply voltage	1224 V DC with reverse polarity protection	
Electrical connection	Male connector M12 4 pins	
Product specific application	For 2 levels monitoring	
[Sd] sensing range	0.122 m	
Beam angle	10 °	
IP degree of protection	IP67 conforming to IEC 60529	

Complementary

Complementary	,
Enclosure material	ULTEM
Front material	Silicone
Thread type	M30 x 1.5
Supply voltage limits	1028 V DC
Function available	Without synchronisation mode
[Sa] assured operating distance	0.122 m (teach mode)
Maximum differential travel	2.5 mm
Blind zone	0120 mm
Transmission frequency	200 kHz
Repeat accuracy	0.9 %
Deviation angle from 90° of object to be detected	-1010 °
Minimum size of detected object	Cylinder diameter 1.6 mm at 0.635 m
Status LED	Output state: 1 LED (green/red (flashing))
	Setting-up assistance: 1 LED (green/red (flashing)) Distance indication: 1 LED (yellow)
Current consumption	
Current consumption Maximum switching current	Distance indication: 1 LED (yellow)
	Distance indication: 1 LED (yellow) 100 mA
Maximum switching current	Distance indication: 1 LED (yellow) 100 mA 100 mA with overload and short-circuit protection
Maximum switching current Maximum voltage drop	Distance indication: 1 LED (yellow) 100 mA 100 mA with overload and short-circuit protection 1 V
Maximum switching current Maximum voltage drop Maximum delay first up	Distance indication: 1 LED (yellow) 100 mA 100 mA with overload and short-circuit protection 1 V 1000 ms
Maximum switching current Maximum voltage drop Maximum delay first up Maximum delay response	Distance indication: 1 LED (yellow) 100 mA 100 mA with overload and short-circuit protection 1 V 1000 ms 150 ms
Maximum switching current Maximum voltage drop Maximum delay first up Maximum delay response Maximum delay recovery	Distance indication: 1 LED (yellow) 100 mA 100 mA with overload and short-circuit protection 1 V 1000 ms 150 ms 1000 ms
Maximum switching current Maximum voltage drop Maximum delay first up Maximum delay response Maximum delay recovery Marking	Distance indication: 1 LED (yellow) 100 mA 100 mA with overload and short-circuit protection 1 V 1000 ms 150 ms 1000 ms CE
Maximum switching current Maximum voltage drop Maximum delay first up Maximum delay response Maximum delay recovery Marking Threaded length	Distance indication: 1 LED (yellow) 100 mA 100 mA with overload and short-circuit protection 1 V 1000 ms 150 ms 1000 ms CE 45 mm

Depth	85 mm	
Net weight	0.091 kg	
Environment		
Standards	IEC 60947-5-2	
Product certifications	UL[RETURN]cCSAus	
Ambient air temperature for operation	050 °C	
Ambient air temperature for storage	-1080 °C	
Vibration resistance	+/-1 mm conforming to IEC 60068-2-6 (f = 1055 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	7.6 cm	
Package 1 Width	7.6 cm	
Package 1 Length	15.2 cm	
Package 1 Weight	226.796 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 www.P65Warnings.ca.gov	
For all Reach Rohs enquiries contact us at	sustainability@tesensors.com	

Contractual warranty

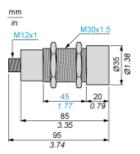
Warranty	18 months	



Product data sheet Dimensions Drawings

XX230A22NA00M12

Dimensions



Product data sheet Mounting and Clearance

XX230A22NA00M12

Minimum Mounting Distances

Side by side



e: respect the distances indicated on the detection curves

Face to face



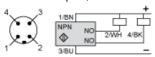
e > 4 x Sn

Product data sheet Connections and Schema

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Wiring Diagram

NO + NO outputs, NPN



(+) Brown

(1) (2) NO output (White)

(3)

(-) Blue NO output (Black) (4)

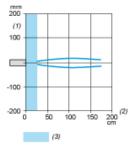
BN Brown WH White BU Blue BK Black

Telemecanique

Product data sheet **Performance Curves**

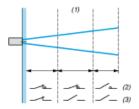
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Curves



- (1) (2) Parallel movement
- Distance
- Blind zone for diffuse sensors.

Operating Curves



- (1) Adjustable detection zone
- Output pin 4 BK
- (2) (3) Output pin 2 WH