XX630S1NCM12

Ultrasonic sensors XX, ultrasonic sensor, M30 stainless steel, diffuse, Sn 1 m, 1NO+1NC, M12



Main

	- 1 1111 1 200
Range of product	Telemecanique Ultrasonic sensors XX
Sensor type	Ultrasonic sensor
Series name	General purpose
Sensor name	XX6
Sensor design	Cylindrical M30
Detection system	Diffuse
[Sn] nominal sensing distance	1 m adjustable with teach push-button
Material	Metal
Type of output signal	Discrete
Discrete output function	1 NC + 1 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
[Sd] sensing range	0.0510.991 m
Beam angle	10 °
IP degree of protection	IP65 conforming to IEC 60529

Complementary

Enclosure material Stainless steel 303 Front material Silicone Thread type M30 x 1.5 Supply voltage limits 1028 V DC Function available Without synchronisation mode [Sa] assured operating distance 0.0510.991 m (teach mode) Maximum differential travel 2.5 mm Blind zone 051 mm Transmission frequency 200 kHz Repeat accuracy 0.9 % Deviation angle from 90° of object to be detected 77° Minimum size of detected object Cylinder diameter 1.6 mm at 0.635 m Status LED Setting-up assistance: 1 LED (green/red (flashing)) Current consumption 50 mA Maximum switching current 100 mA with overload and short-circuit protection Maximum voltage drop 1 V Switching frequency <= 10 Hz Maximum delay first up 720 ms Maximum delay response 20 ms Maximum delay recovery 20 ms Maximum delay recovery 20 ms Maximum delay recovery 20 ms Maximum delay the supplies of the	Complementary	
Thread type M30 x 1.5 Supply voltage limits 1028 V DC Function available Without synchronisation mode [Sa] assured operating distance 0.0510.991 m (teach mode) Maximum differential travel 2.5 mm Blind zone 051 mm Transmission frequency 200 kHz Repeat accuracy 0.9 % Deviation angle from 90° of object to be detected 77° Minimum size of detected object Cylinder diameter 1.6 mm at 0.635 m Status LED Setting-up assistance: 1 LED (green/red (flashing)) Current consumption 50 mA Maximum switching current 100 mA with overload and short-circuit protection Maximum voltage drop 1 V Switching frequency <= 10 Hz Maximum delay first up 720 ms Maximum delay response 20 ms Maximum delay recovery 20 ms Maximum delay recovery 20 ms Marking CE Threaded length 45 mm Height 35 mm Width 35 mm Depth 85 mm	Enclosure material	Stainless steel 303
Supply voltage limits 1028 V DC Function available Without synchronisation mode [Sa] assured operating distance 0.0510.991 m (teach mode) Maximum differential travel 2.5 mm Blind zone 051 mm Transmission frequency 200 kHz Repeat accuracy 0.9 % Deviation angle from 90° of object to be detected 77° Minimum size of detected object Cylinder diameter 1.6 mm at 0.635 m Status LED Setting-up assistance: 1 LED (green/red (flashing)) Current consumption 50 mA Maximum switching current 100 mA with overload and short-circuit protection Maximum voltage drop 1 V Switching frequency <= 10 Hz Maximum delay first up 720 ms Maximum delay response 20 ms Maximum delay response 20 ms Maximum delay recovery 20 ms Maximum delay recovery 20 ms Maximum delay recovery 20 ms Maximum delay the delay delay delay delay delay delay me Maximum delay recovery 20 ms	Front material	Silicone
Function available Without synchronisation mode [Sa] assured operating distance 0.0510.991 m (teach mode) Maximum differential travel 2.5 mm Blind zone 051 mm Transmission frequency 200 kHz Repeat accuracy 0.9 % Deviation angle from 90° of object to be detected -77 ° Minimum size of detected object Cylinder diameter 1.6 mm at 0.635 m Status LED Setting-up assistance: 1 LED (green/red (flashing)) Current consumption 50 mA Maximum switching current 100 mA with overload and short-circuit protection Maximum voltage drop 1 V Switching frequency <= 10 Hz Maximum delay first up 720 ms Maximum delay resoonse 20 ms Maximum delay recovery 20 ms Maximum delay recovery 20 ms Maximum delay recovery 20 ms Marking CE Threaded length 45 mm Width 35 mm Depth 85 mm	Thread type	M30 x 1.5
[Sa] assured operating distance 0.0510.991 m (teach mode) Maximum differential travel 2.5 mm Blind zone 051 mm Transmission frequency 200 kHz Repeat accuracy 0.9 % Deviation angle from 90° of object to be detected -77° Minimum size of detected object Cylinder diameter 1.6 mm at 0.635 m Status LED Setting-up assistance: 1 LED (green/red (flashing)) Current consumption 50 mA Maximum switching current 100 mA with overload and short-circuit protection Maximum voltage drop 1 V Switching frequency <= 10 Hz	Supply voltage limits	1028 V DC
Maximum differential travel 2.5 mm Blind zone 051 mm Transmission frequency 200 kHz Repeat accuracy 0.9 % Deviation angle from 90° of object to be detected -77° Minimum size of detected object Cylinder diameter 1.6 mm at 0.635 m Status LED Setting-up assistance: 1 LED (green/red (flashing)) Current consumption 50 mA Maximum switching current 100 mA with overload and short-circuit protection Maximum voltage drop 1 V Switching frequency <= 10 Hz	Function available	Without synchronisation mode
Blind zone 051 mm Transmission frequency 200 kHz Repeat accuracy 0.9 % Deviation angle from 90° of object to be detected -77° Minimum size of detected object Cylinder diameter 1.6 mm at 0.635 m Status LED Setting-up assistance: 1 LED (green/red (flashing)) Current consumption 50 mA Maximum switching current 100 mA with overload and short-circuit protection Maximum voltage drop 1 V Switching frequency <= 10 Hz Maximum delay first up 720 ms Maximum delay response 20 ms Maximum delay recovery 20 ms Maximum delay recovery 20 ms Marking CE Threaded length 45 mm Height 35 mm Width 35 mm Depth 85 mm	[Sa] assured operating distance	0.0510.991 m (teach mode)
Transmission frequency Repeat accuracy 0.9 % Deviation angle from 90° of object to be detected 77° Minimum size of detected object Cylinder diameter 1.6 mm at 0.635 m Status LED Setting-up assistance: 1 LED (green/red (flashing)) Current consumption 50 mA Maximum switching current 100 mA with overload and short-circuit protection Maximum voltage drop 1 V Switching frequency <= 10 Hz Maximum delay first up 720 ms Maximum delay response 20 ms Maximum delay recovery 20 ms Marking CE Threaded length 45 mm Height 35 mm Width Depth 85 mm	Maximum differential travel	2.5 mm
Repeat accuracy Deviation angle from 90° of object to be detected 77° Minimum size of detected object Cylinder diameter 1.6 mm at 0.635 m Status LED Setting-up assistance: 1 LED (green/red (flashing)) Current consumption 50 mA Maximum switching current 100 mA with overload and short-circuit protection Maximum voltage drop 1 V Switching frequency <= 10 Hz Maximum delay first up 720 ms Maximum delay response 20 ms Maximum delay recovery 20 ms Marking CE Threaded length 45 mm Height 35 mm Width 35 mm Depth 85 mm	Blind zone	051 mm
Deviation angle from 90° of object to be detected -77° Minimum size of detected object Cylinder diameter 1.6 mm at 0.635 m Status LED Setting-up assistance: 1 LED (green/red (flashing)) Current consumption 50 mA Maximum switching current 100 mA with overload and short-circuit protection Maximum voltage drop 1 V Switching frequency <= 10 Hz Maximum delay first up 720 ms Maximum delay response 20 ms Maximum delay recovery 20 ms Marking CE Threaded length 45 mm Height 35 mm Width 35 mm Depth 85 mm	Transmission frequency	200 kHz
Minimum size of detected object Setting-up assistance: 1 LED (green/red (flashing)) Current consumption 50 mA Maximum switching current 100 mA with overload and short-circuit protection Maximum voltage drop 1 V Switching frequency <= 10 Hz Maximum delay first up 720 ms Maximum delay response 20 ms Maximum delay recovery 20 ms Marking CE Threaded length 45 mm Height 35 mm Width 35 mm Depth	Repeat accuracy	0.9 %
Status LED Setting-up assistance: 1 LED (green/red (flashing)) Current consumption 50 mA Maximum switching current 100 mA with overload and short-circuit protection Maximum voltage drop 1 V Switching frequency <= 10 Hz Maximum delay first up 720 ms Maximum delay response 20 ms Maximum delay recovery 20 ms Marking CE Threaded length 45 mm Height 35 mm Width 35 mm Depth 85 mm	Deviation angle from 90° of object to be detected	-77 °
Current consumption50 mAMaximum switching current100 mA with overload and short-circuit protectionMaximum voltage drop1 VSwitching frequency<= 10 Hz	Minimum size of detected object	Cylinder diameter 1.6 mm at 0.635 m
Maximum switching current 100 mA with overload and short-circuit protection 1 V Switching frequency 4= 10 Hz Maximum delay first up 720 ms Maximum delay response 20 ms Maximum delay recovery 20 ms Marking CE Threaded length 45 mm Height 35 mm Width Depth 85 mm	Status LED	Setting-up assistance: 1 LED (green/red (flashing))
Maximum voltage drop 1 V Switching frequency <= 10 Hz Maximum delay first up 720 ms Maximum delay response 20 ms Maximum delay recovery 20 ms Marking CE Threaded length 45 mm Height 35 mm Width 35 mm Depth 85 mm	Current consumption	50 mA
Switching frequency <= 10 Hz Maximum delay first up 720 ms Maximum delay response 20 ms Maximum delay recovery 20 ms Marking CE Threaded length 45 mm Height 35 mm Width 35 mm Depth 85 mm	Maximum switching current	100 mA with overload and short-circuit protection
Maximum delay first up 720 ms Maximum delay response 20 ms Maximum delay recovery 20 ms Marking CE Threaded length 45 mm Height 35 mm Width 35 mm Depth 85 mm	Maximum voltage drop	1 V
Maximum delay response 20 ms Maximum delay recovery 20 ms Marking CE Threaded length 45 mm Height 35 mm Width 35 mm Depth 85 mm	Switching frequency	<= 10 Hz
Maximum delay recovery 20 ms Marking CE Threaded length 45 mm Height 35 mm Width 35 mm Depth 85 mm	Maximum delay first up	720 ms
Marking CE Threaded length 45 mm Height 35 mm Width 35 mm Depth 85 mm	Maximum delay response	20 ms
Threaded length 45 mm Height 35 mm Width 35 mm Depth 85 mm	Maximum delay recovery	20 ms
Height 35 mm Width 35 mm Depth 85 mm	Marking	CE
Width 35 mm Depth 85 mm	Threaded length	45 mm
Depth 85 mm	Height	35 mm
717	Width	35 mm
Net weight 0.091 kg	Depth	85 mm
	Net weight	0.091 kg

Environment

Standards	IEC 60947-5-2
Product certifications	cCSAus[RETURN]UL
Ambient air temperature for operation	060 °C
Ambient air temperature for storage	-4080 °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	14.2 cm	
Package 1 Width	7.1 cm	
Package 1 Length	5.5 cm	
Package 1 Weight	150.0 g	

Offer Sustainability

Green Premium product
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
sustainability@tesensors.com

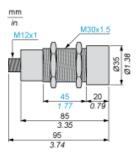
Contractual warranty



Product data sheet Dimensions Drawings

XX630S1NCM12

Dimensions



Product data sheet Mounting and Clearance

XX630S1NCM12

Minimum Mounting Distances

Side by side



e: respect the distances indicated on the detection curves

Face to face



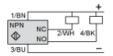
e> 4xSn

Product data sheet Connections and Schema

XX630S1NCM12

Wiring Diagram

NO + NC Outputs, NPN



BN Brown

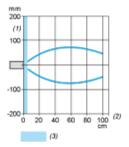
WH White BU Blue

BK Black

Product data sheet Performance Curves

XX630S1NCM12

Curves



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