Product data sheet
Characteristics

XX630A2JCM12
ultrasonic sensor cylindrical M30 - Sn=2m - NO +NC NPN sync - M12

Product Life Status : END OF STANDARD SERVICE

TODAY
FEB 22, 2021

End of Commercialization
DEC 08, 2020

End of Standard Service
DEC 08, 2020



Main

Range of product	OsiSense XX
Sensor type	Ultrasonic sensor
Series name	General purpose
Sensor name	XX6
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	1 NC + 1 NO
Wiring technique	5-wire
Discrete output type	NPN
[Us] rated supply voltage	12...24 V DC with reverse polarity protection
Electrical connection	Male connector M12 5 pins
[Sd] sensing range	0.12…2 m
Beam angle	10 °
IP degree of protection	IP67 conforming to IEC 60529

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Complementary

Enclosure material	ULTEM
Front material	Silicone
Thread type	M30 x 1.5
Supply voltage limits	10…28 V DC
Function available	With synchronisation mode
[Sa] assured operating distance	0.12…2 m (teach mode)
Maximum differential travel	2.5 mm
Blind zone	0…120 mm
Transmission frequency	200 kHz
Repeat accuracy	0.9 %
Deviation angle from 90° of object to be detected	-7…7 °
Minimum size of detected object	Cylinder diameter 1.6 mm at 0.635 m
Status LED	Setting-up assistance: 1 LED (green/red (flashing))

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This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications.
It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof.
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Current consumption	100 mA
Maximum switching current	100 mA with overload and short-circuit protection
Maximum voltage drop	1 V
Switching frequency	<= 16 Hz
Maximum delay first up	720 ms
Maximum delay response	25 ms
Maximum delay recovery	20 ms
Marking	CE
Threaded length	45 mm
Height	35 mm
Width	35 mm
Depth	85 mm
Net weight	0.091 kg

Environment

Standards	IEC 60947-5-2
Product certifications	CCSAus 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

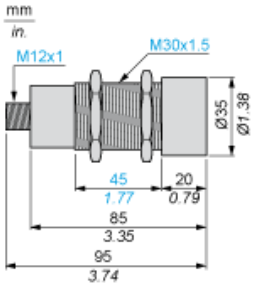
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	126 g
Package 1 Height	4.2 cm
Package 1 width	13 cm
Package 1 Length	9.5 cm

Offer Sustainability

REACh Regulation	REACh Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes

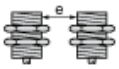
XX630A2JCM12

Dimensions



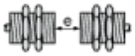
Minimum Mounting Distances

Side by side



e : respect the distances indicated on the detection curves

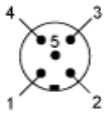
Face to face



e > 4 x Sn

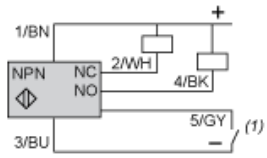
Wiring Diagram

Connector



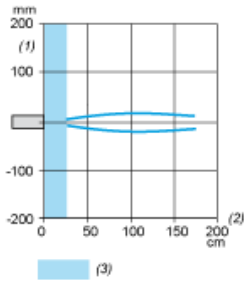
(1) (+) Brown
(2) NO output (White)
(3) (-) Blue
(4) NO output (Black)
(5) Synchronisation (Grey)

NO + NC Outputs, NPN



BN Brown
WH White
BU Blue
BK Black
GY Grey
(1) Open = burst
Close = no burst

Curves



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