Product data sheet **Characteristics**

XX630A1HCM12

ultrasonic sensor cylindrical M30 - Sn=1m - NC +NO PNP sync - M12



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IVI	a	

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	1 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	PNP
[Us] rated supply voltage	1224 V DC with reverse polarity protection
Electrical connection	Male connector M12 5 pins
[Sd] sensing range	0.0510.991 m
Beam angle	10 °
IP degree of protection	IP67 conforming to IEC 60529

Complementary	
Enclosure material	ULTEM
Front material	Silicone
Thread type	M30 x 1.5
Supply voltage limits	1028 V DC
Function available	With 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
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	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

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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) CEU RoHS Declaration	
Mercury free	Yes	
RoHS exemption information	⊡ Yes	



Product data sheet Dimensions Drawings

XX630A1HCM12

Dimensions





XX630A1HCM12

Minimum Mounting Distances

Side by side



e: respect the distances indicated on the detection curves

Face to face



e > 4 x Sn



XX630A1HCM12

Wiring Diagram

Connector



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

NO + NC Outputs, PNP



- ΒN Brown WH White
- BU Blue
- ΒK Black
- GΥ Grey
- (1) Open = burst
 - Close = no burst



Product data sheet Performance Curves

XX630A1HCM12

Curves



(1) Parallel movement

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

