



Main

Range of product	OsiSense XX
Sensor type	Ultrasonic sensor
Series name	General purpose
Sensor name	XXB
Sensor design	Cylindrical M30
Detection system	Reflex
[Sn] nominal sensing distance	1 m adjustable with remote teach push-button
Material	Plastic
Type of output signal	Discrete
Discrete output function	1 NO
Wiring technique	4-wire
Discrete output type	PNP
[Us] rated supply voltage	12...24 V DC with reverse polarity protection
Electrical connection	Male connector M12 4 pins
[Sd] sensing range	0...1 m
Beam angle	7 °
IP degree of protection	IP67 conforming to IEC 60529



Complementary

Enclosure material	Valox
Front material	Epoxy
Thread type	M30 x 1.5
Supply voltage limits	10...28 V DC
[Sa] assured operating distance	0...1 m (teach mode)
Maximum differential travel	2.5 mm
Blind zone	0...315 mm
Transmission frequency	180 kHz
Repeat accuracy	0.9 %
Deviation angle from 90° of object to be detected	-7...7 °
Minimum size of detected object	Cylinder diameter 50.8 mm at 1 m
Status LED	Setting-up assistance/supply on/output state: 1 LED (green/yellow)
Current consumption	50 mA

Maximum switching current	100 mA with overload and short-circuit protection
Maximum voltage drop	1.5 V
Switching frequency	<= 70 Hz
Maximum delay first up	75 ms
Maximum delay response	15 ms
Maximum delay recovery	75 ms
Marking	CE
Threaded length	37 mm
Height	96 mm
Width	30 mm
Net weight	0.09 kg




Environment

Standards	IEC 60947-5-2
Product certifications	UL
Ambient air temperature for operation	0...70 °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	114 g
Package 1 Height	4 cm
Package 1 width	10 cm
Package 1 Length	13 cm
Unit Type of Package 2	S02
Number of Units in Package 2	18
Package 2 Weight	2.524 kg
Package 2 Height	15 cm
Package 2 width	30 cm
Package 2 Length	40 cm

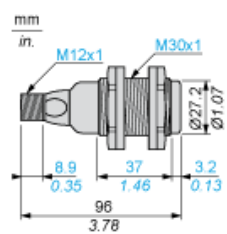
Offer Sustainability

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

Contractual warranty

Warranty	18 months
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Dimensions



Minimum Mounting Distances

Side by side



e : respect the distances indicated on the detection curves

Face to face

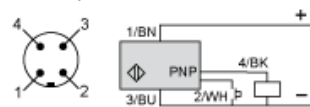


$e > 4 \times S_n$

Wiring Diagram

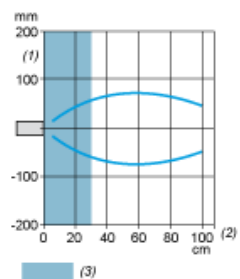
3-Wire Type

NO outputs, PNP



- (1) (+)
- (2) Teach input (WH)
- (3) (-)
- (4) Output
- BN Brown
- WH White
- BU Blue
- BK Black

Curves



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