



Main

Range of product	OsiSense XX
Sensor type	Ultrasonic sensor
Series name	General purpose
Sensor name	XX2
Sensor design	Cylindrical M30
Detection system	Diffuse
[Sn] nominal sensing distance	3.28 ft (1 m) adjustable with teach push-button
Material	Plastic
Type of output signal	Discrete
Discrete output function	2 NO
Wiring technique	5-wire
Discrete output type	PNP
[Us] rated supply voltage	12...24 V DC with reverse polarity protection
Electrical connection	Male connector M12 5 pins
Product specific application	For 2 levels monitoring
[Sd] sensing range	0.17...3.25 ft (0.051...0.991 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	10...28 V DC
Function available	With synchronisation mode
[Sa] assured operating distance	0.17...3.25 ft (0.051...0.991 m) (teach mode)
Maximum differential travel	0.1 in (2.5 mm)
Blind zone	0...2.01 in (0...51 mm)
Transmission frequency	200 kHz
Repeat accuracy	0.9 %
Deviation angle from 90° of object to be detected	-10...10 °
Minimum size of detected object	Cylinder diameter 1.6 mm at 0.635 m
Status LED	1 LED (green/red (flashing)) output state 1 LED (green/red (flashing)) setting-up assistance 1 LED (yellow) distance indication
Current consumption	100 mA
Maximum switching current	100 mA with overload and short-circuit protection
Voltage drop	< 1 V
Delay first up	1000 ms
Delay response	150 ms
Delay recovery	1000 ms
Marking	CE
Threaded length	1.77 in (45 mm)
Height	1.38 in (35 mm)
Width	1.38 in (35 mm)
Depth	3.35 in (85 mm)
Product weight	0.2 lb(US) (0.091 kg)

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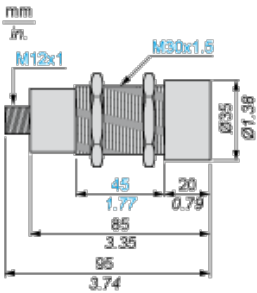
Environment

standards	IEC 60947-5-2
product certifications	CCSAus UL
ambient air temperature for operation	32...122 °F (0...50 °C)
ambient air temperature for storage	14...176 °F (-10...80 °C)
vibration resistance	+/-1 mm conforming to IEC 60068-2-6 10...55 Hz
shock resistance	30 gn in all 3 axes 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	9.14 V/yd (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

Offer Sustainability

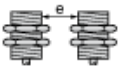
WARNING: This product can expose you to chemicals including:	WARNING: This product can expose you to chemicals including:
Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, and	Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, and
Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm.	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 more information go to www.p65warnings.ca.gov

Dimensions



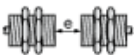
Minimum Mounting Distances

Side by side



e : respect the distances indicated on the detection curves

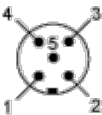
Face to face



e > 4 x Sn

Wiring Diagram

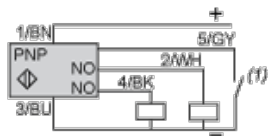
Connector



- (1) (+) Brown
- (2) NO output (White)
- (3) (-) Blue

- (4) NO output (Black)
- (5) Synchronisation (Grey)

NO + NO Outputs, PNP



BN Brown

WH White

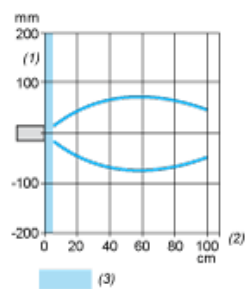
BU Blue

BK Black

GY Grey

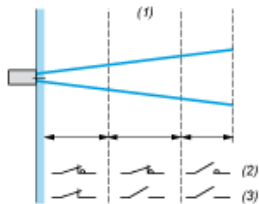
- (1) Open = burst
- Close = no burst

Curves



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

Operating Curves



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