



## 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 | 6.56 ft (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          | PNP                                             |
| [Us] rated supply voltage     | 12...24 V DC with reverse polarity protection   |
| Electrical connection         | Male connector M12 5 pins                       |
| [Sd] sensing range            | 0.39...6.56 ft (0.12...2 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                   | 0.39...6.56 ft (0.12...2 m) (teach mode)           |
| Maximum differential travel                       | 0.1 in (2.5 mm)                                    |
| Blind zone                                        | 0...4.72 in (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                                        | 1 LED (green/red (flashing)) setting-up assistance |
| Current consumption                               | 100 mA                                             |
| Maximum switching current                         | 100 mA with overload and short-circuit protection  |
| Voltage drop                                      | < 1 V                                              |
| Switching frequency                               | <= 16 Hz                                           |
| Delay first up                                    | 720 ms                                             |
| Delay response                                    | 25 ms                                              |
| Delay recovery                                    | 20 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)                              |

## Environment

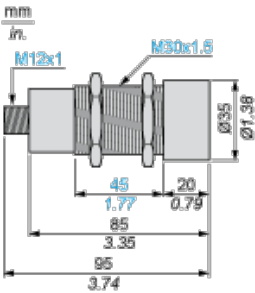
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|                                       |                                                        |
|---------------------------------------|--------------------------------------------------------|
| standards                             | IEC 60947-5-2                                          |
| product certifications                | CCSAus<br>UL                                           |
| ambient air temperature for operation | 32...140 °F (0...60 °C)                                |
| ambient air temperature for storage   | -40...176 °F (-40...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

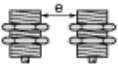
|                                                                                                                            |                                                                                                                            |
|----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Not Green Premium product                                                                                                  | Not Green Premium product                                                                                                  |
| 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 <a href="http://www.p65warnings.ca.gov">www.p65warnings.ca.gov</a>                              | For more information go to <a href="http://www.p65warnings.ca.gov">www.p65warnings.ca.gov</a>                              |

Dimensions



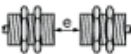
Minimum Mounting Distances

Side by side



e :    respect the distances indicated on the detection curves

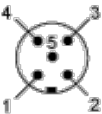
Face to face



e > 4 x Sn

Wiring Diagram

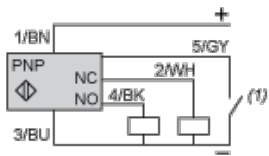
Connector



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

(5) Synchronisation (Grey)

### NO + NC Outputs, PNP



BN Brown

WH White

BU Blue

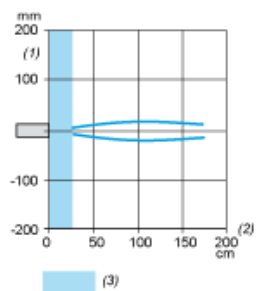
BK Black

GY Grey

(1) Open = burst

Close = no burst

### Curves



(1) Parallel movement

(2) Distance

(3) Blind zone for diffuse sensors.

Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

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- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
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- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
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- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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