



## Main

|                               |                               |
|-------------------------------|-------------------------------|
| Range of product              | OsiSense XU                   |
| Series name                   | Application food and beverage |
| Electronic sensor type        | Photo-electric sensor         |
| Sensor name                   | XU2                           |
| Sensor design                 | Cylindrical M18               |
| Detection system              | Thru beam                     |
| Material                      | Stainless steel               |
| Line of sight type            | 90° lateral                   |
| Type of output signal         | Discrete                      |
| Supply circuit type           | DC                            |
| Wiring technique              | 3-wire                        |
| Discrete output type          | NPN                           |
| Discrete output function      | 1 NO or 1 NC programmable     |
| Electrical connection         | Cable                         |
| Cable length                  | 6.56 ft (2 m)                 |
| Product specific application  | -                             |
| Emission                      | Infrared thru beam            |
| [Sn] nominal sensing distance | 49.21 ft (15 m) thru beam     |

## Complementary

|                           |  |
|---------------------------|--|
| Enclosure material        | Stainless steel : 304 CU                               |
| Lens material             | PMMA   |
| Maximum sensing distance  | 65.62 ft (20 m)  |
| Output type               | Solid state  |
| Add on output             | Without  |
| Add on input              | Breaking test + programming                            |
| Cable composition         | 4 x 0.34 mm <sup>2</sup>                               |
| Wire insulation material  | PvR  |
| Cable outer diameter      | 0.17 in (4.2 mm)                                       |
| Status LED                | 1 LED (green) supply on<br>1 LED (yellow) output state |
| [Us] rated supply voltage | 12...24 V DC with reverse polarity protection          |
| Supply voltage limits     | 10...30 V DC   |
| Switching capacity in mA  | <= 100 mA (overload and short-circuit protection)      |
| Switching frequency       | <= 500 Hz  |
| Voltage drop              | <= 1.5 V (closed state)                                |
| Current consumption       | <= 50 mA (no-load)                                     |
| Delay first up            | <= 15 ms   |
| Delay response            | <= 1 ms  |
| Delay recovery            | <= 1 ms  |
| Setting-up                | Without sensitivity adjustment                         |
| Diameter                  | 0.71 in (18 mm)  |
| Length                    | 3.07 in (78 mm)  |
| Product weight            | 0.6 lb(US) (0.27 kg)                                   |
| Kit composition           | Transmitter + receiver                                 |

## Environment

|                        |    |
|------------------------|----|
| product certifications | CE |
|------------------------|----|

CSA  
UL

|                                       |  |
|---------------------------------------|--|
| ambient air temperature for operation | -13...131 °F (-25...55 °C)   |
| ambient air temperature for storage   | -40...158 °F (-40...70 °C)   |
| vibration resistance                  | 25 gn, amplitude = +/- 1.5 mm (f = 10...55 Hz) conforming to IEC 60068-2-6 |
| shock resistance                      | 30 gn (duration = 11 ms) conforming to IEC 60068-2-27                      |
| IP degree of protection               | IP67 conforming to IEC 60529   |

### Offer Sustainability

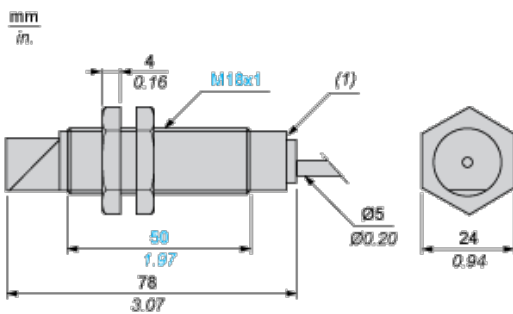
|  |  |
|--|--|
| Not Green Premium product  | Not Green Premium product  |
| Will be Compliant on 3Q2013  | Will be Compliant on 3Q2013<br>Will be Compliant on 3Q2013   |
| Available  | Available  |
| Available  | Available  |
| WARNING: This product can expose you to chemicals including:   | WARNING: 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>                              |

### Contractual warranty

|                 |           |
|-----------------|-----------|
| Warranty period | 18 months |
|-----------------|-----------|

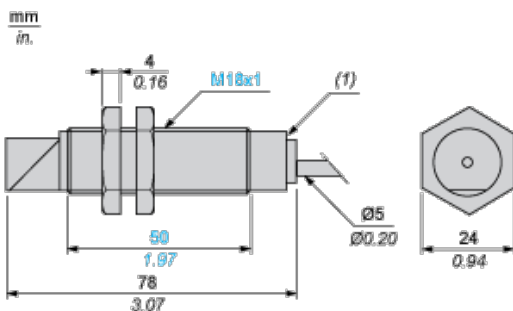
### Dimensions

#### Transmitter's Dimensions



(1) LED

#### Receiver's Dimensions



(1) LED

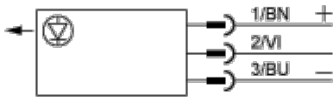
### Mounting and Clearance

Fixing nut tightening torque: < 15 N.m

Connector tightening torque: 2 N.m

## Wiring Schemes

### Transmitter

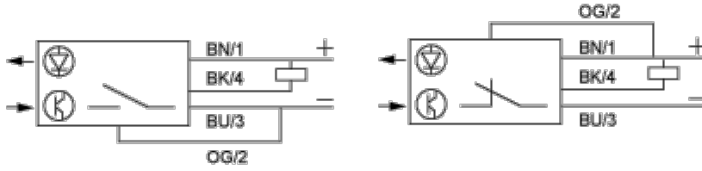


BN : Brown

VI : Violet (beam break input)

BU : Blue

### 3-wire, NPN NO or NC Programmable Function



BN : Brown

BK : Black (out / output)

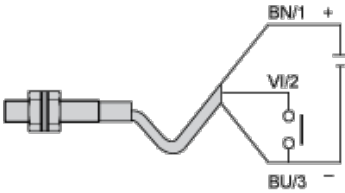
BU : Blue

OG : Orange (program)

## Wiring Schemes

### Beam Break Input on Thru-beam Transmitter

Beam made

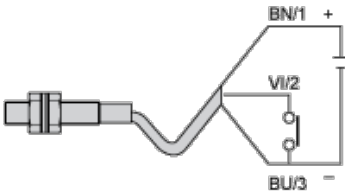


BN : Brown

VI : Violet (beam break input)

BU : Blue

Beam broken



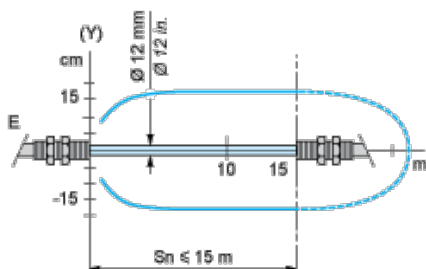
BN : Brown

VI : Violet (beam break input)

BU : Blue

## Detection Curves

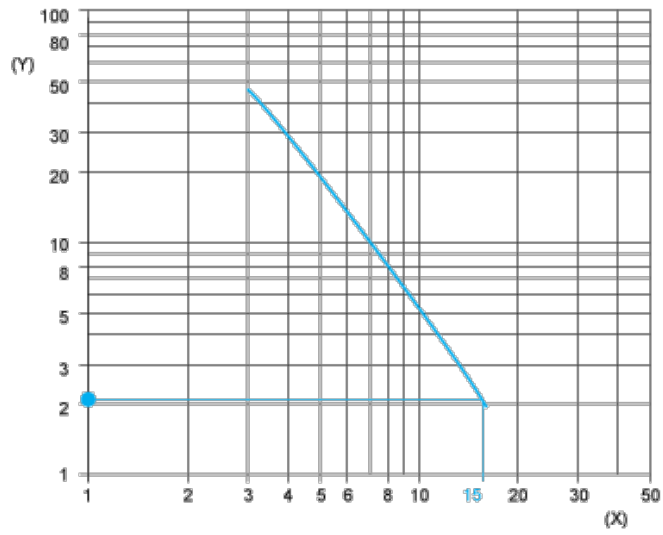
### Thru-beam System



(y) Ø of beam

## Excess Gain Curves (Ambient Temperature: + 25° C)

### Thru-beam System



(y) Gain

(x) Distance (m)