



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	1 male connector M12, 4 pins
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
Status LED	1 LED (green) supply on 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	3.46 in (88 mm)
Product weight	0.29 lb(US) (0.13 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)

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

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

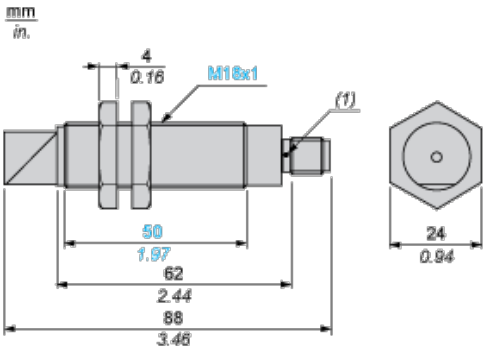
Not Green Premium product	Not Green Premium product
Compliant - since 1402 - Schneider Electric declaration of conformity	Compliant - since 1402 - Schneider Electric declaration of conformity
Reference not containing SVHC above the threshold	Reference not containing SVHC above the threshold
WARNING: 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

Contractual warranty

Warranty period	18 months
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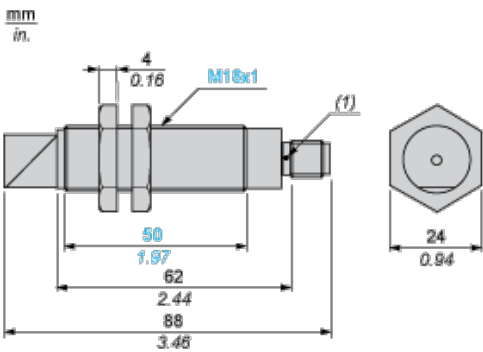
Dimensions

Transmitter's Dimensions



(1) LED

Receiver's Dimensions



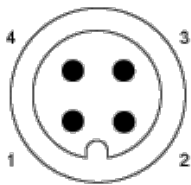
(1) LED

Mounting and Clearance

Fixing nut tightening torque: < 15 N.m
Connector tightening torque: 2 N.m

Wiring Schemes

M12 Connector



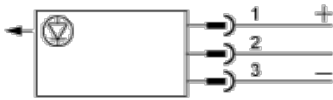
3 : (-)

1 : (+)

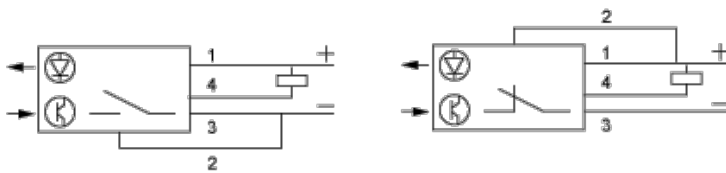
4 : OUT/Output

2 : Prog or beam break input (transmitter only)

Transmitter



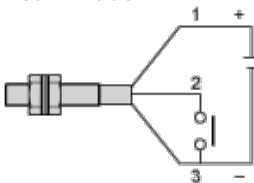
3-wire, NPN NO or NC Programmable Function



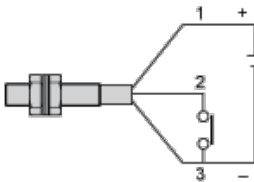
Wiring Schemes

Beam Break Input on Thru-beam Transmitter

Beam made



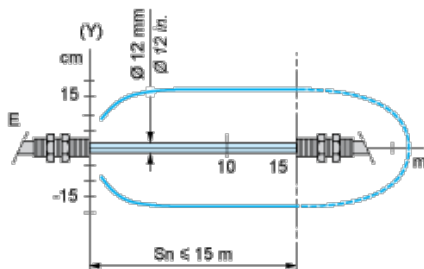
Beam broken



2 : Beam break input

Detection Curves

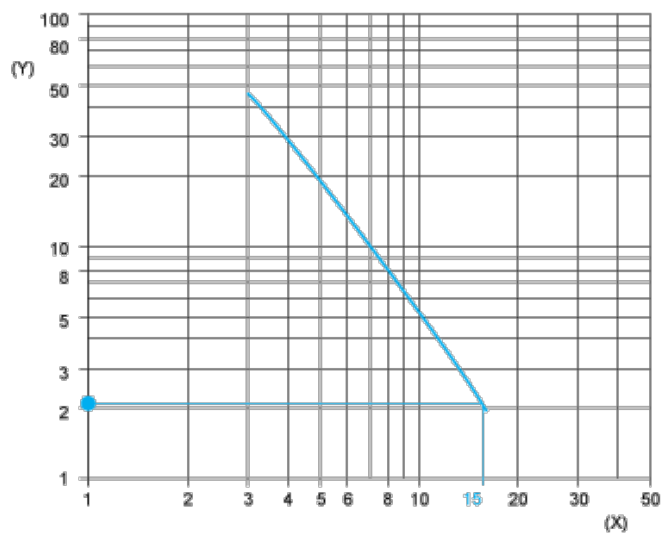
Thru-beam System



(y) Ø of beam

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

Thru-beam System



(y) Gain

(x) Distance (m)