

Photoelectric sensors XU, XU2, thru beam, Sn
15 m, 12...24 VDC, cable 2 m



Main

Range of product Telemecanique Photoelectric sensors 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 Axial

Type of output signal Discrete

Supply circuit type DC

Wiring technique 3-wire

Discrete output type PNP

Discrete output function 1 NO or 1 NC programmable

Electrical connection Cable

Cable length 2 m

Product specific application -

Emission Infrared thru beam

[Sn] nominal sensing distance 15 m thru beam

Complementary

Enclosure material Stainless steel : 304 CU

Lens material PMMA

Maximum sensing distance 20 m

Output type Solid state

Add on output Without

Add on input Breaking test + programming

Cable composition 4 x 0.34 mm²

Wire insulation material PvR

Cable outer diameter 4.2 mm

Status LED 1 LED (green) for supply on
1 LED (yellow) for 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

Maximum voltage drop <1.5 V (closed state)

Current consumption <= 50 mA no-load

Maximum delay first up 15 ms

Maximum delay response 1 ms

Maximum delay recovery 1 ms

Setting-up Without sensitivity adjustment

Diameter 18 mm

Length 62 mm

Net weight 0.27 kg

Kit composition Transmitter + receiver

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 TMSS Holding nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

Environment

Product certifications	CSA[RETURN]CE[RETURN]JUL
Ambient air temperature for operation	-25...55 °C
Ambient air temperature for storage	-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

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	6.7 cm
Package 1 Width	9.6 cm
Package 1 Length	13.2 cm
Package 1 Weight	242.0 g
Unit Type of Package 2	S02
Number of Units in Package 2	11
Package 2 Height	15.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	2.939 kg

Offer Sustainability

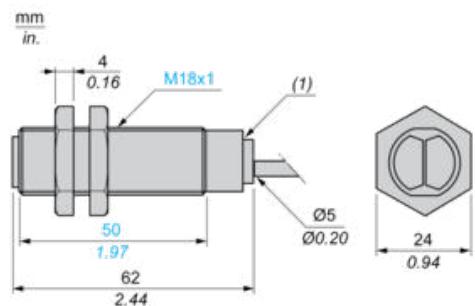
Sustainable offer status	Green Premium product
California proposition 65	WARNING: This product can expose you to chemicals including: Diisobutyl phthalate (DINP), which is known to the State of California to cause cancer, and Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov
For all Reach Rohs enquiries contact us at	sustainability@tesensors.com

Contractual warranty

Warranty	18 months
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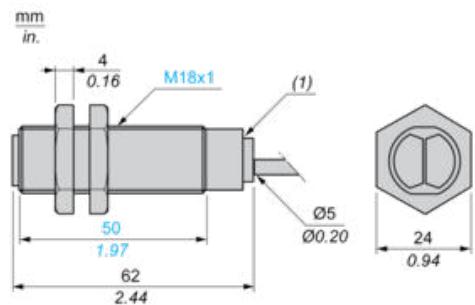
Dimensions

Transmitter's Dimensions



(1) LED

Receiver's Dimensions



(1) LED

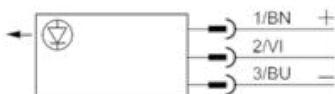
Mounting and Clearance

Fixing nut tightening torque: < 15 N.m

Connector tightening torque: 2 N.m

Wiring Schemes

Transmitter

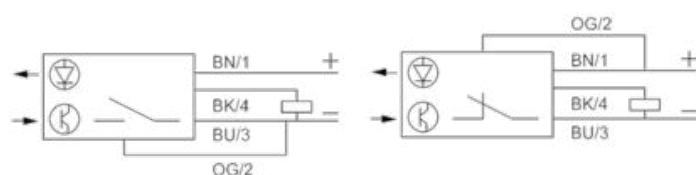


BN : Brown

VI : Violet (beam break input)

BU : Blue

3-wire, PNP NO or NC Programmable Function



BN : Brown

BK : Black (out / output)

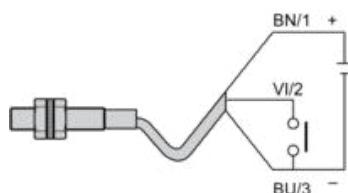
BU : Blue

OG : Orange (program)

Wiring Schemes

Beam Break Input on Thru-beam Transmitter

Beam made

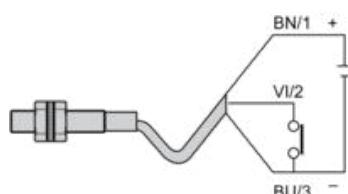


BN : Brown

VI : Violet (beam break input)

BU : Blue

Beam broken



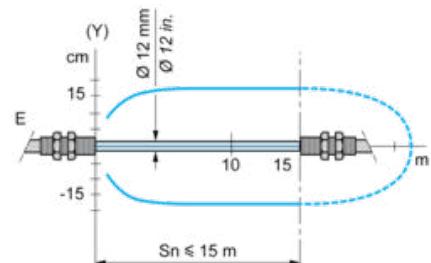
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Detection Curves

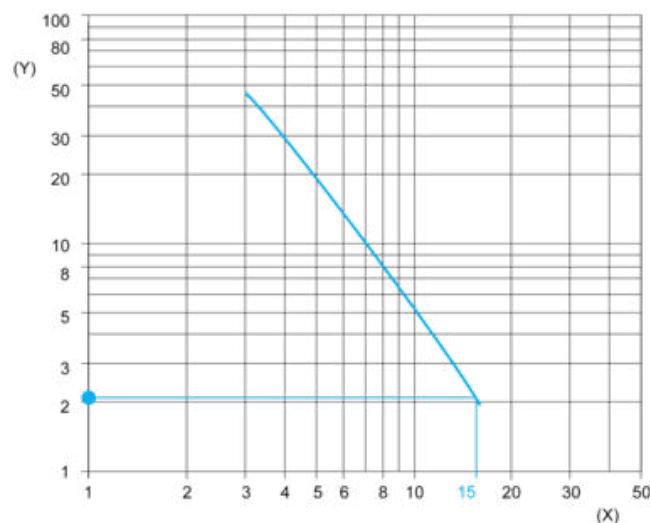
Thru-beam System



(y) \emptyset of beam

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

Thru-beam System



(y) Gain

(x) Distance (m)