



## Main

Range of Product	Telemecanique Photoelectric sensors XU
Series name	General purpose single mode
Electronic sensor type	Photo-electric sensor
Sensor name	XU8
Sensor design	Cylindrical M18
Detection system	Diffuse with background suppression
Material	Metal
Line of sight type	90° lateral
Type of output signal	Discrete
Supply circuit type	AC/DC
Wiring Technique	2-wire
Discrete output function	1 NC
Electrical connection	Cable
Cable length	6.56 ft (2 m)
Product Specific Application	-
Emission	Infrared diffuse with background suppression
[Sn] nominal sensing distance	0.39 ft (0.12 m) diffuse with background suppression

## Complementary

Enclosure Material	Nickel Plated Brass
Lens material	PMMA
Maximum sensing distance	0.39 ft (0.12 m)
Output Type	Solid state
Add on output	Without
Wire insulation material	PvR
Status LED	1 LED yellow)output state
[Us] rated supply voltage	24...240 V AC/DC
Supply voltage limits	20...264 V AC/DC
Maximum residual current	1.5 mA open state
Switching capacity in mA	10...200 mA to be used with 0.4 A quick-blow fuse in series with the load)
Switching frequency	<= 25 Hz
Maximum voltage drop	<6 V closed state)
Maximum delay first up	300 ms
Maximum delay response	20 ms
Maximum delay recovery	20 ms
Setting-up	Sensitivity adjustment
Diameter	0.71 in (18 mm)
Length	3.82 in (97 mm)
Net Weight	0.33 lb(US) (0.15 kg)

## Environment

Product Certifications	UL CSA CE
Ambient air temperature for operation	-13...131 °F (-25...55 °C)
Ambient Air Temperature for Storage	-40...158 °F (-40...70 °C)
Vibration resistance	7 gn +/- 1.5 mm 10...55 Hz IEC 60068-2-6
Shock resistance	30 gn 11 ms) IEC 60068-2-27
IP degree of protection	IP67 double insulation IEC 60529

## Ordering and shipping details

Category	22481-SENSORS, PHOTOELECTRIC
Discount Schedule	DS2
GTIN	3389110896107
Nbr. of units in pkg.	1
Package weight(Lbs)	4.87 oz (138.0 g)
Returnability	No
Country of origin	FR

## Packing Units

Unit Type of Package 1	PCE
Package 1 Height	1.61 in (4.1 cm)
Package 1 width	3.70 in (9.4 cm)
Package 1 Length	5.12 in (13 cm)
Unit Type of Package 2	S02
Number of Units in Package 2	22
Package 2 Weight	7.70 lb(US) (3.491 kg)
Package 2 Height	5.91 in (15 cm)
Package 2 width	11.81 in (30 cm)
Package 2 Length	15.75 in (40 cm)

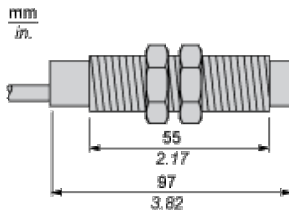
## Offer Sustainability

Sustainable offer status	Green Premium product
California proposition 65	WARNING: This product can expose you to chemicals including: 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. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>
REACH Regulation	<a href="#">REACH Declaration</a>
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>
Mercury free	Yes
RoHS exemption information	<a href="#">Yes</a>
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
Circularity Profile	<a href="#">End Of Life Information</a>

## Contractual warranty

Warranty	18 months
----------	-----------

Dimensions

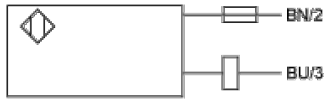


---

## Wiring Schemes

---

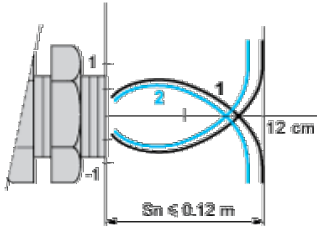
### 2-wire AC or DC



BU : Blue  
BN : Brown

Detection Curves

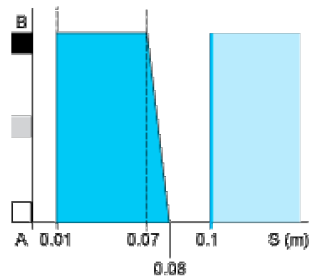
Diffuse System with Adjustable Background Suppression



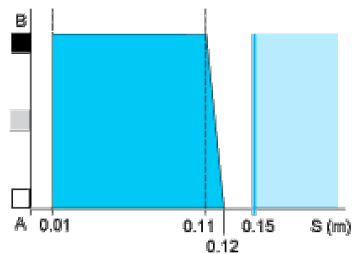
- 1 : White 90%
  - 2 : Grey 18%
- Object 10 x 10 cm

Variation of Usable Sensing Distance  $S_u$

Potentiometer Set at Minimum



Potentiometer Set at Maximum



- (1) Black 6%
- (2) Grey 18%
- (3) White 90%
- (4) Sensing range
- (5) Non sensing zone (matt surfaces)

A-B : Object reflection coefficient

- (1) Black 6%
- (2) Grey 18%
- (3) White 90%
- (4) Sensing range
- (5) Non sensing zone (matt surfaces)