

# XUBLBPCNL2R

Photoelectric sensors XU, XUB, receiver, laser,  
Sn 100 m, 12...24 VDC, cable 2 m



## Main

|                               |                                                                       |
|-------------------------------|-----------------------------------------------------------------------|
| Range of Product              | Telemecanique Photoelectric sensors XU                                |
| Series name                   | Application material handling                                         |
| Electronic sensor type        | Photo-electric sensor receiver                                        |
| Sensor name                   | XUB                                                                   |
| Sensor design                 | Cylindrical M18                                                       |
| Detection system              | Thru beam                                                             |
| Material                      | Metal                                                                 |
| 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                  | 6.56 ft (2 m)                                                         |
| Product Specific Application  | -                                                                     |
| Emission                      | Red laser thru beam class 1 0.000026378 in (670 nm) IEC 60825-1       |
| [Sn] nominal sensing distance | 0.00...328.08 ft (0...100 m) thru beam need a transmitter XUBLBKCNL2T |

## Complementary

|                           |                                                                           |
|---------------------------|---------------------------------------------------------------------------|
| Enclosure Material        | Nickel Plated Brass                                                       |
| Lens material             | PMMA                                                                      |
| Output Type               | Solid state                                                               |
| Wire insulation material  | PvR                                                                       |
| Status LED                | 1 LED green)supply on<br>1 LED yellow)output state<br>1 LED red)stability |
| [Us] rated supply voltage | 12...24 V DC reverse polarity protection                                  |
| Supply voltage limits     | 10...30 V DC                                                              |
| Switching capacity in mA  | <= 100 mA overload and short-circuit protection)                          |
| Switching frequency       | <= 1500 Hz                                                                |
| Maximum voltage drop      | <1.5 V closed state)                                                      |
| Current consumption       | 25 mA no-load                                                             |
| Maximum delay first up    | 80 ms                                                                     |
| Maximum delay response    | 0.4 ms                                                                    |
| Maximum delay recovery    | 0.4 ms                                                                    |
| Diameter                  | 0.71 in (18 mm)                                                           |
| Length                    | 2.44 in (62 mm)                                                           |
| Product Weight            | 0.26 lb(US) (0.12 kg)                                                     |

## Environment

|                                       |                                           |
|---------------------------------------|-------------------------------------------|
| Product Certifications                | CE<br>CSA<br>UL                           |
| Ambient Air Temperature for Operation | 14...113 °F (-10...45 °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              | 3389119023696                |
| Returnability     | No                           |
| Country of origin | FR                           |

## Packing Units

|                              |                   |
|------------------------------|-------------------|
| Unit Type of Package 1       | PCE               |
| Number of Units in Package 1 | 1                 |
| Package 1 Height             | 1.42 in (3.6 cm)  |
| Package 1 Width              | 2.76 in (7.0 cm)  |
| Package 1 Length             | 5.12 in (13.0 cm) |
| Package 1 Weight             | 4.16 oz (118.0 g) |

## 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>                                                                                                                                                                                                                                                                                                                                           |

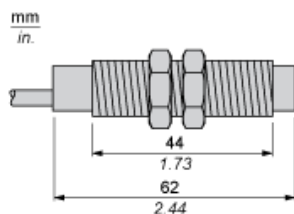
## Contractual warranty

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

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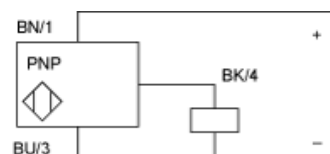
Dimensions

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## Wiring Schemes

### PNP



(+) Brown

BN :

(-) Blue

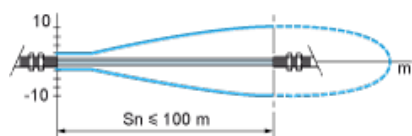
BU :

(Output) Black

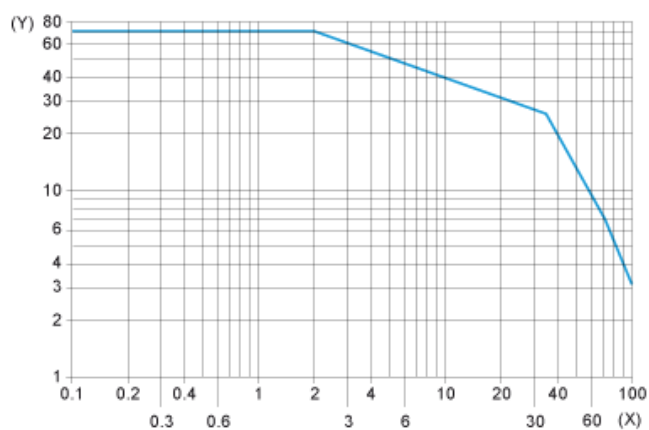
BK :

## Curves

### Detection Curve (Set to Infinity)



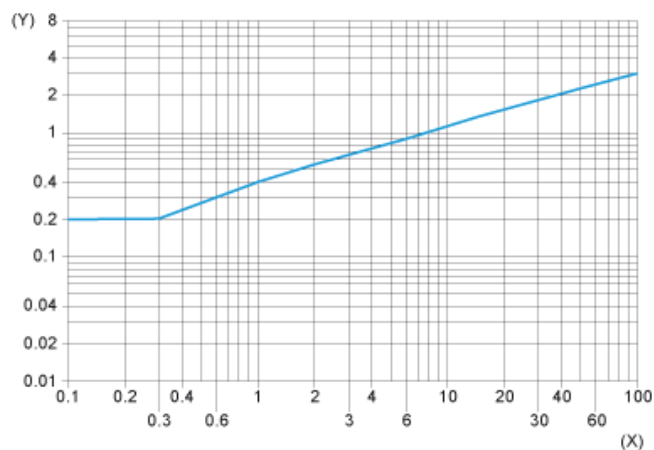
### Excess Gain Curve



(X) Distance (m)

(Y) Gain

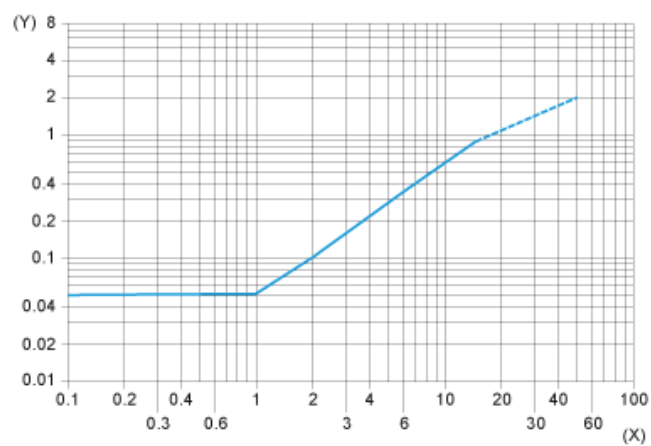
### Standard Curve



(X) Distance focusing point (m)

(Y) Minimum size of the object to be detected (mm)

## Detection Limit Curve



(X) Distance focusing point (m)

(Y) Minimum size of the object to be detected (mm)