

# XUVR1218NBNM8

Photoelectric sensors XU, XUV, fork,  
180X120mm, 12...24 VDC, M8



## Main

|                               |  |
|-------------------------------|--|
| Range of Product              | Telemecanique Photoelectric sensors XU |
| Series name                   | General purpose                        |
| Electronic sensor type        | Photo-electric sensor                  |
| Sensor name                   | XUVR                                   |
| Sensor design                 | Fork                                   |
| Detection system              | Thru beam                              |
| Emission                      | Red LED, modulated                     |
| Passage width                 | 7.09 in (180 mm)                       |
| Passage depth                 | 4.72 in (120 mm)                       |
| Material                      | Metal/plastic                          |
| Supply circuit type           | DC                                     |
| Wiring Technique              | 3-wire                                 |
| Discrete output type          | PNP                                    |
| Discrete output function      | 1 NC                                   |
| Electrical connection         | 1 male connector M8, 3 pins            |
| Product Specific Application  | Detection on small conveyor            |
| [Sn] nominal sensing distance | 7.09 in (180 mm)                       |

## Complementary

|                           |   |
|---------------------------|---|
| Enclosure Material        | Painted aluminium and polyamide/glass         |
| Spot diameter             | 0.04 in (1 mm)                                |
| Type of output signal     | Discrete                                      |
| Output Type               | Solid state                                   |
| Status LED                | Output state 1 LED yellow)                    |
| [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       | 4000 Hz                                       |
| Maximum voltage drop      | <1.5 V closed state)                          |
| Current consumption       | < 20 mA no-load                               |
| Net Weight                | 0.42 lb(US) (0.19 kg)                         |

## Environment

|                                       |   |
|---------------------------------------|---|
| Product Certifications                | CSA<br>UL<br>CE                                       |
| Ambient Air Temperature for Operation | 14...140 °F (-10...60 °C)                             |
| Ambient Air Temperature for Storage   | -40...176 °F (-40...80 °C)                            |
| Immunity to ambient light             | 10000 Lux natural light<br>5000 lux incandescent bulb |
| Vibration resistance                  | 7 gn +/- 0.75 mm 10...55 Hz) IEC 60068-2-6            |
| Shock resistance                      | 30 gn 11 ms) IEC 60068-2-27                           |
| IP degree of protection               | IP65<br>IP67  |

## Ordering and shipping details

|                       |                              |
|-----------------------|------------------------------|
| Category              | 22481-SENSORS, PHOTOELECTRIC |
| Discount Schedule     | DS2                          |
| GTIN                  | 3389119040839                |
| Nbr. of units in pkg. | 1                            |
| Package weight(Lbs)   | 0.2 lb(US) (0.09 kg)         |
| Returnability         | No                           |
| Country of origin     | FR                           |

## Packing Units

|                  |          |
|------------------|----------|
| Package 1 Height | 0.310 dm |
| Package 1 width  | 0.017 dm |
| Package 1 Length | 0.155 dm |

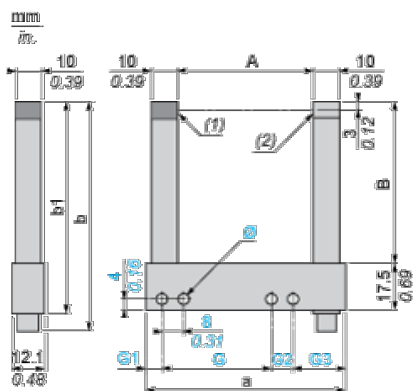
## Offer Sustainability

|                            |   |
|----------------------------|---|
| 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>   |

## Contractual warranty

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

Dimensions



- (1) Transmission LED
- (2) Yellow LED: output signal

Dimensions in mm

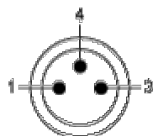
| Passageway A | Depth B | a   | b     | b1  | G   | G1 | G2 | G3 | Ø       |
|--------------|---------|-----|-------|-----|-----|----|----|----|---------|
| 180          | 124.3   | 204 | 150.2 | 142 | 152 | 22 | 8  | 22 | 4 x 4.3 |

Dimensions in in.

| Passageway A | Depth B | a    | b    | b1   | G    | G1   | G2   | G3   | Ø           |
|--------------|---------|------|------|------|------|------|------|------|-------------|
| 7.09         | 4.89    | 8.03 | 5.91 | 5.59 | 5.98 | 0.87 | 0.31 | 0.87 | 0.16 x 0.17 |

## Wiring Schemes

### M8 Connector



- 1 : BN: Brown
- 3 : BU: Blue
- 4 : BK: Black

### NPN Output

