

# XUVR1218NANM8

photo-electric sensor - XUV - fork -  
180X120mm - 12..24VDC - M8



## Main

|                               |                             |
|-------------------------------|-----------------------------|
| Range of product              | OsiSense 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                 | 180 mm                      |
| Passage depth                 | 120 mm                      |
| Material                      | Metal/Plastic               |
| Supply circuit type           | DC                          |
| Wiring technique              | 3-wire                      |
| Discrete output type          | NPN                         |
| Discrete output function      | 1 NO                        |
| Electrical connection         | 1 male connector M8, 3 pins |
| Product specific application  | Detection on small conveyor |
| [Sn] nominal sensing distance | 180 mm                      |

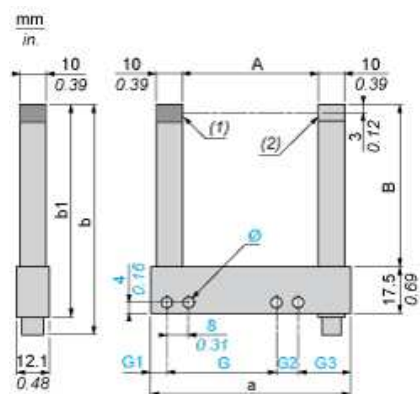
## Complementary

|                           |  |
|---------------------------|--|
| Enclosure material        | Painted aluminium and polyamide/glass          |
| Spot diameter             | 1 mm   |
| Type of output signal     | Discrete                                       |
| Output type               | Solid state                                    |
| Status LED                | 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       | 4000 Hz  |
| Voltage drop              | <= 1.5 V (closed state)                        |
| Current consumption       | < 20 mA (no-load)                              |
| Product weight            | 0.08...0.19 kg                                 |

## Environment

|                                       |  |
|---------------------------------------|--|
| Product certifications                | CE<br>CSA<br>UL  |
| Ambient air temperature for operation | -10...60 °C  |
| Ambient air temperature for storage   | -40...80 °C  |
| Immunity to ambient light             | 10000 lux with natural light<br>5000 lux with incandescent bulb            |
| Vibration resistance                  | 7 gn, amplitude = +/- 0.75 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               | IP65<br>IP67   |

Dimensions



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

Dimensions in mm

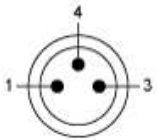
| Passageway A | Depth B | a   | b     | b1  | G   | G1 | G2 | G3 | Ø       |
|--------------|---------|-----|-------|-----|-----|----|----|----|---------|
| 180          | 124.3   | 204 | 150.2 | 142 | 152 | 22 | 8  | 22 | 4 x 4.3 |

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

