



## Photoelectric sensors W15, Through-beam photoelectric sensor

WSE15-B1130



**Model Name** > [WSE15-B1130](#)  
**Part No.** > [1046286](#)



*Illustration may differ*

#### At a glance

- Through-beam photoelectric sensor in hybrid design with
- 5 m sensing range
- M18 front mount using plastic nut or snap ring, side assembly with 24.1 mm through holes
- Flush mounting possible using the snap ring
- Transparent back cover
- Highly visible sender LED

#### Your benefits

- Compatible with many competitor models, making it easy to install and commission
- Flush mounting reduces setup time and prevents obstructions to material flow on conveyor sections
- Clearly visible LED indicators reduce setup time and simplify troubleshooting
- Quick and easy alignment due to highly visible light spot



#### Features

|                                  |                                   |
|----------------------------------|-----------------------------------|
| Sensor/detection principle:      | Through-beam photoelectric sensor |
| Dimensions (W x H x D):          | 16.2 mm x 48.5 mm x 31.9 mm       |
| Housing design (light emission): | Hybrid                            |
| Thread diameter (housing):       | M18 x 1                           |
| Sensing range max.:              | 0 m ... 5 m                       |
| Sensing range:                   | 0 m ... 3.8 m                     |
| Type of light:                   | Visible red light                 |
| Light source:                    | LED <sup>1)</sup>                 |
| Wave length:                     | 650 nm                            |
| Angle of dispersion:             | 1.5 °                             |
| Light spot size (distance):      | 160 mm (4 m)                      |

<sup>1)</sup> Average service life of 100,000 h at  $T_A = +25\text{ °C}$

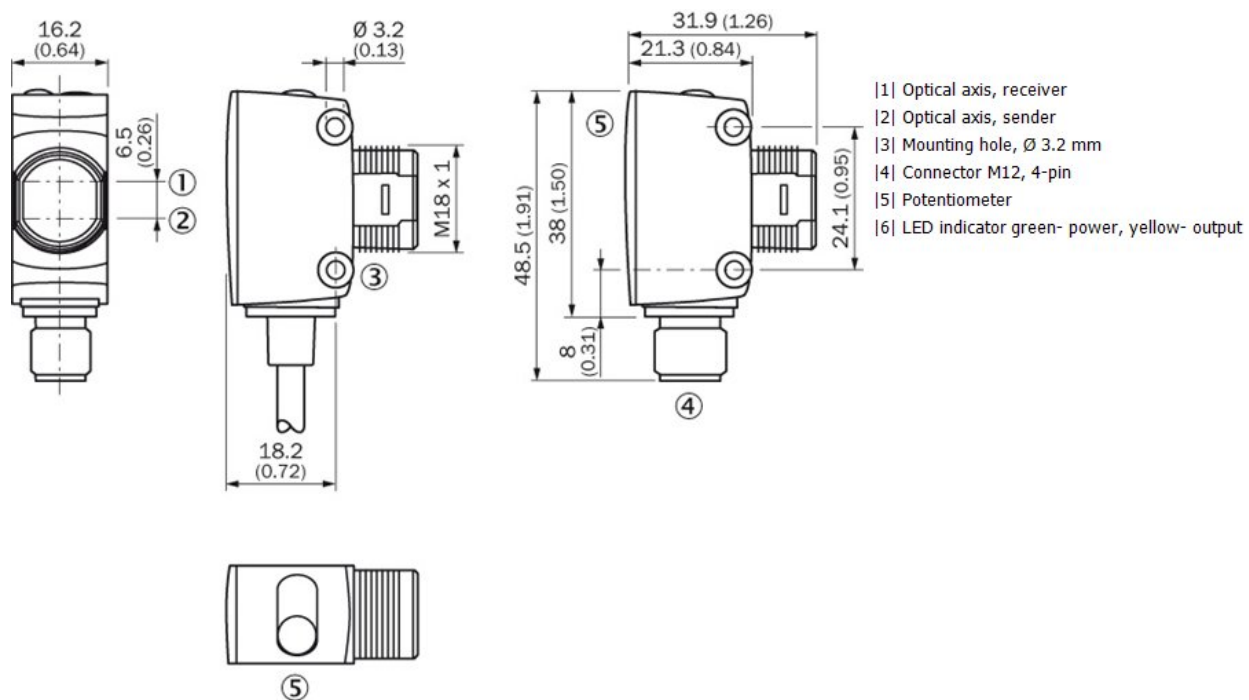
#### Mechanics/electronics

|                    |                                   |
|--------------------|-----------------------------------|
| Supply voltage:    | 10 V DC ... 30 V DC <sup>1)</sup> |
| Ripple:            | $\leq 5\text{ Vpp}$ <sup>2)</sup> |
| Power consumption: | $\leq 30\text{ mA}$ <sup>3)</sup> |
| Output type:       | NPN, PNP                          |

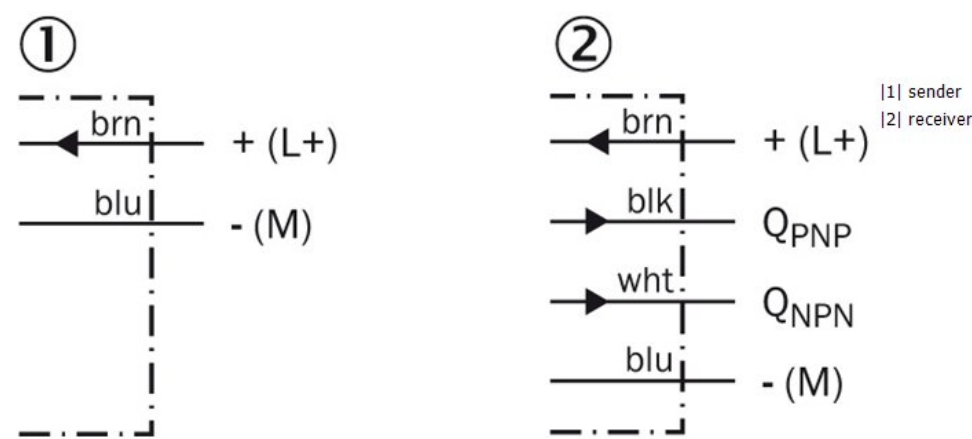
|                                    |                                  |
|------------------------------------|----------------------------------|
| Switching mode:                    | Light switching                  |
| Output current I <sub>max</sub> :: | ≤ 100 mA                         |
| Response time:                     | ≤ 1.4 ms <sup>4)</sup>           |
| Switching frequency:               | 350 Hz <sup>5)</sup>             |
| Connection type:                   | Cable, 4-wire, 2 m <sup>6)</sup> |
| Cable material:                    | PUR                              |
| Conductor cross-section:           | 0.14 mm <sup>2</sup>             |
| Circuit protection:::              | A, B, D <sup>7)</sup> 8) 9)      |
| Protection class:                  | II <sup>10)</sup>                |
| Weight:                            | 40 g                             |
| Housing material:                  | ABS, Plastic                     |
| Optics material:                   | PMMA                             |
| Enclosure rating:                  | IP 67                            |
| Items supplied:                    | Snap-ring and M18 nut            |
| Ambient operating temperature:     | -25 °C ... 55 °C                 |
| Ambient storage temperature:       | -25 °C ... 70 °C                 |
| UL File No.:                       | NRKH7.E189383                    |

1) Limit values, operation in short-circuit protected network max. 8 A 2) May not exceed or fall short of V<sub>S</sub> tolerances 3) Without load 4) Signal transit time with resistive load 5) With light/dark ratio 1:1 6) Do not bend below 0 °C 7) A = V<sub>S</sub> connections reverse-polarity protected 8) B = inputs and output reverse-polarity protected 9) D = outputs overcurrent and short-circuit protected 10) Reference voltage 50 V DC

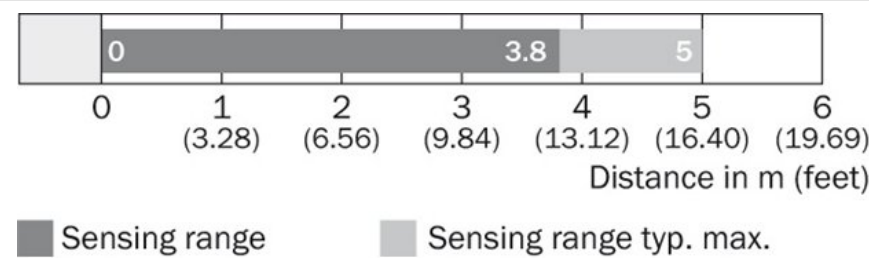
## Dimensional drawing



Connection diagram

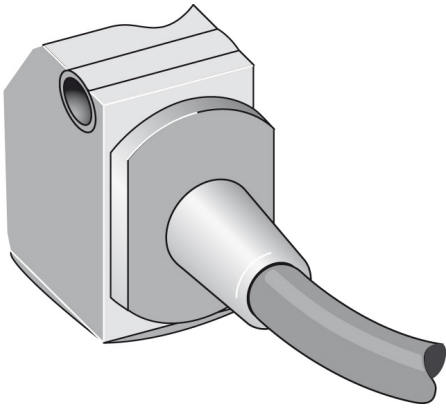


Sensing range diagram



## Connection type

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