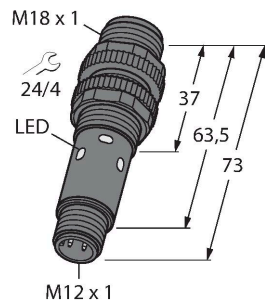


# XS200-BS18K-VP6X2-H1141

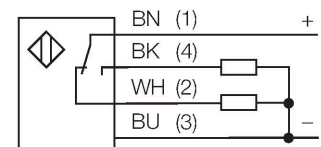
## Photoelectric Sensor – Diffuse Mode Sensor with Fixed-field Background Suppression



### Features

- M12 x 1 male, 5-pin
- Protection class IP67
- Ambient temperature: -40...+70° C
- Selectable light/dark operation or light operation with alarm function
- Operating voltage: 10...30 VDC
- PNP switching output, changeover

### Wiring diagram



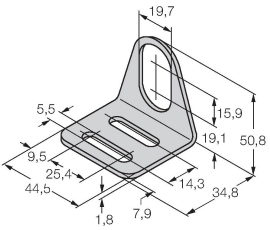
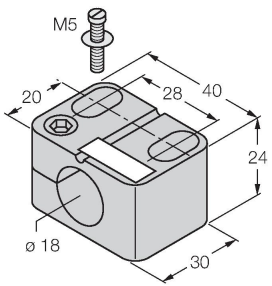
### Functional principle

Retroreflective light barriers with background suppression operate with a single emitter and several receiver elements. The target's position and the optical structure of the sensor determine which receiver element gets the most light. The sensor electronics then determine whether the reflecting target is inside or outside the measuring range. These sensors come with a fixed cut-off point.

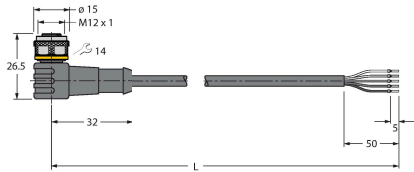
### Technical data

|                             |                                                             |
|-----------------------------|-------------------------------------------------------------|
| Type                        | XS200-BS18K-VP6X2-H1141                                     |
| ID                          | 7700879                                                     |
| Function                    | Diffuse mode sensor with fixed-field background suppression |
| Light type                  | Red                                                         |
| Wavelength                  | 624 nm                                                      |
| Range                       | 1...200 mm                                                  |
| Operating voltage           | 10...30 VDC                                                 |
| Residual ripple             | < 10 % U <sub>ss</sub>                                      |
| No-load current             | ≤ 16 mA                                                     |
| Short-circuit protection    | yes / Cyclic                                                |
| Reverse polarity protection | yes                                                         |
| Output function             | Complementary contact, PNP                                  |
| Readiness delay             | ≤ 100 ms                                                    |
| Response time typical       | < 2.25 ms                                                   |
| Design                      | Cylinder, threaded, S18                                     |
| Dimensions                  | Ø 18 x 73 mm                                                |
| Housing material            | Plastic, ABS                                                |
| Electrical connection       | Connector, M12 × 1                                          |
| Number of cores             | 4                                                           |
| Ambient temperature         | -40...+70 °C                                                |
| Protection class            | IP67                                                        |
| Power-on indication         | LED, Green                                                  |
| Switching state             | 2 × LEDs, Yellow                                            |
| Error indication            | flashing                                                    |
| Alarm display               | flashing                                                    |

Accessories

|                                                                                   |                                                                                              |                                                                                    |                                                                              |
|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| MW-18                                                                             | 6945004                                                                                      | BST-18N                                                                            | 6947215                                                                      |
|  | Mounting bracket for threaded barrel sensors; material: Stainless steel A2 1.4301 (AISI 304) |  | Mounting clamp for threaded barrel sensors, without dead-stop; material: PA6 |

Accessories

| Dimension drawing                                                                   | Type          | ID      |                                                                                                                                                                                                                  |
|-------------------------------------------------------------------------------------|---------------|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|   | RKC4.5T-2/TEL | 6625016 | Connection cable, female M12, straight, 5-pin, cable length: 2 m, sheath material: PVC, black; cULus approval; other cable lengths and qualities available, see <a href="http://www.turck.com">www.turck.com</a> |
|  | WKC4.5T-2/TEL | 6625028 | Connection cable, female M12, angled, 5-pin, cable length: 2 m, sheath material: PVC, black; cULus approval; other cable lengths and qualities available, see <a href="http://www.turck.com">www.turck.com</a>   |