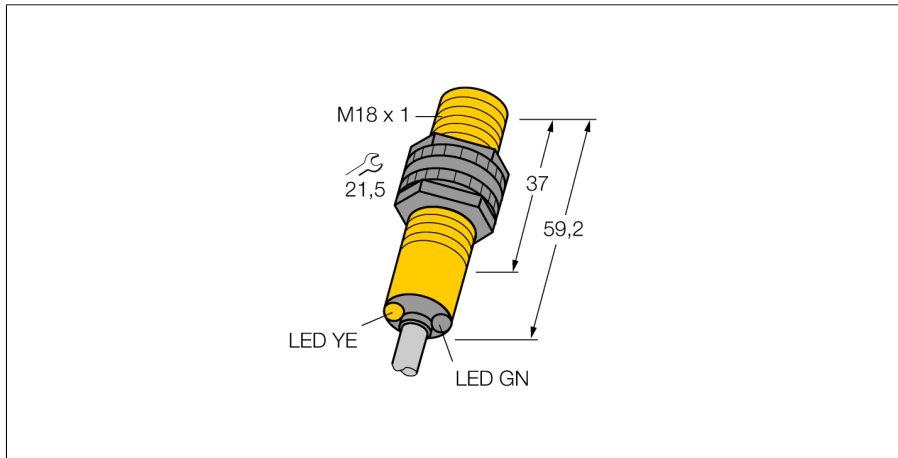
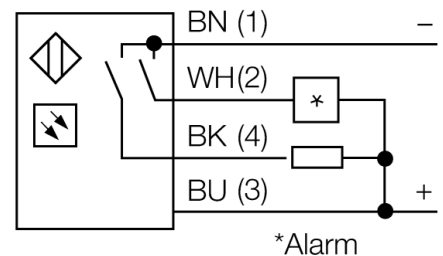
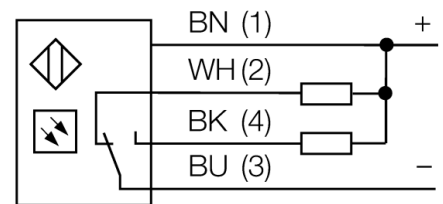


**Photoelectric sensor  
retroreflective sensor  
S18SN6L**



- Cable, 2 m
- Protection class IP67
- Ambient temperature: -40...+70 °C
- Selectable light/dark operation or light operation with alarm function
- Operating voltage: 10...30 VDC
- NPN switching output, changeover

**Wiring diagram**

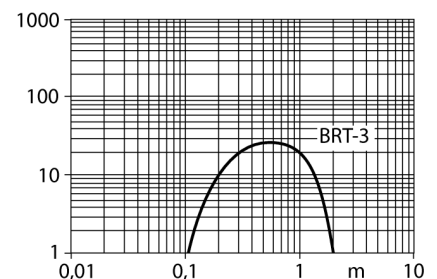


**Functional principle**

Retro-reflective sensors incorporate emitter and receiver in a single compact housing. The light beam of the emitter is directed towards a reflector which returns the light back to the receiver. An object is detected when it interrupts this beam. Retro-reflective sensors have a high function gain and good contrast performance. Further it is merely required to install and wire a single device.

**Excess gain curve**

Excess gain in relation to the distance



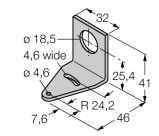
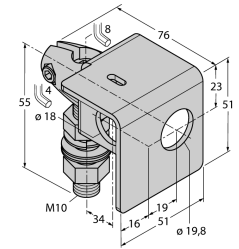
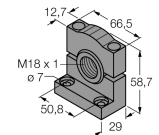
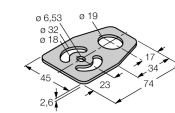
|                                |                              |
|--------------------------------|------------------------------|
| <b>Type code</b>               | S18SN6L                      |
| Ident no.                      | 3028556                      |
| <b>Operating mode</b>          | retro-reflective sensor      |
| Light type                     | IR                           |
| Wavelength                     | 950 nm                       |
| Range                          | 50...2000 mm                 |
| Ambient temperature            | -40...+70 °C                 |
| <b>Operating voltage</b>       | 10...30VDC                   |
| No-load current I <sub>0</sub> | ≤ 25 mA                      |
| Short-circuit protection       | yes/ cyclic                  |
| Reverse polarity protection    | yes                          |
| Output function                | connection programmable, NPN |
| Switching frequency            | ≤ 160 Hz                     |
| Readiness delay                | ≤ 100 ms                     |
| Overcurrent release            | > 220 mA                     |
| <b>Design</b>                  | cylindrical/threaded, S18    |
| Dimensions                     | 59.2 mm                      |
| Housing diameter               | 18 mm                        |
| Housing material               | plastic, PBT                 |
| Lens                           | plastic, acrylic             |
| Connection                     | cable                        |
| Cable length                   | 2 m                          |
| Cable cross section            | 4 x 0.5 mm <sup>2</sup>      |
| Protection class               | IP67                         |
| <b>Power-on indication</b>     | LED green                    |
| Switching state                | LED yellow                   |
| Error indication               | LED green flashing           |
| Alarm display                  | LED yellow flashing          |

Photoelectric sensor  
retroreflective sensor  
S18SN6L

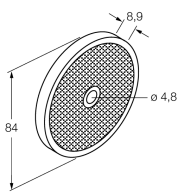
**TURCK**

Industrial  
Automation

**Accessories**

| Type code   | Ident no. | Description   | Dimension drawing   |
|-------------|-----------|---|---|
| SMB18A      | 3033200   | Mounting bracket, stainless steel, for sensors with 18 mm thread                |    |
| SMB18AFAM10 | 3012558   | Mounting bracket, material VA 1.4401, for M10 x 1.5 thread, thread length 18 mm |    |
| SMB3018SC   | 3053952   | Mounting bracket, PTB black, for sensors with 18 mm thread                      |  |
| SMBAMS18P   | 3073134   | Mounting bracket, stainless steel, for sensors with 18 mm thread                |  |

**Function accessories**

| Type code | Ident no. | Description   | Dimension drawing   |
|-----------|-----------|---|---|
| BRT-3     | 3016164   | Round reflector, reflection coefficient 1.0, material acrylic, ambient temperature -20 ... +60 °C |  |