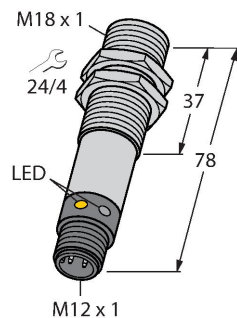


# M18SN6DLQ

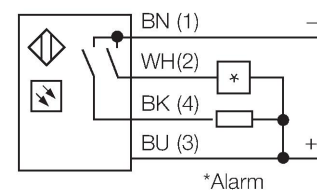
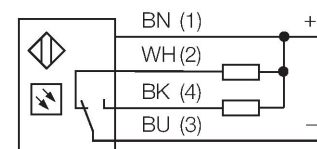
## Photoelectric Sensor – Diffuse Mode Sensor



### Features

- M12 × 1 male connector, 4-pin
- Protection classes IP67/IP69K
- Ambient temperature: -40 °C...+70 °C
- Metal housing
- Male connector M12 × 1
- Stainless steel housing
- Operating voltage: 10...30 VDC
- NPN switching output, changeover

### Wiring diagram

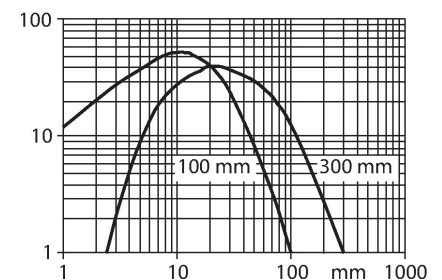


### Functional principle

The emitter and receiver are incorporated in a single housing. The light reflection of the target is detected and triggers the sensor to switch. Thus the switching distance largely depends on the reflectivity of the target.

Excess gain curve

Excess gain in relation to the distance



### Technical data

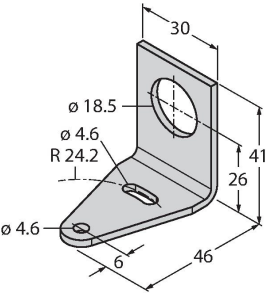
|                             |                              |
|-----------------------------|------------------------------|
| Type                        | M18SN6DLQ                    |
| ID                          | 3048665                      |
| <b>Optical data</b>         |                              |
| Function                    | Proximity switch             |
| Operating mode              | Diffuse                      |
| Light type                  | IR                           |
| Wavelength                  | 880 nm                       |
| Range                       | 2...300 mm                   |
| <b>Electrical data</b>      |                              |
| Operating voltage           | 10...30 VDC                  |
| No-load current             | ≤ 25 mA                      |
| Short-circuit protection    | yes / Cyclic                 |
| Reverse polarity protection | yes                          |
| Output function             | Connection programmable, NPN |
| Switching frequency         | ≤ 160 Hz                     |
| Readiness delay             | ≤ 100 ms                     |
| Response time typical       | < 3 ms                       |
| Overcurrent release         | > 220 mA                     |
| <b>Mechanical data</b>      |                              |
| Design                      | Tube, M18                    |
| Dimensions                  | Ø 18 x 78 mm                 |
| Housing material            | Metal, Stainless steel       |
| Lens                        | plastic, Acrylic             |
| Electrical connection       | Connector, M12 × 1, PVC      |
| Number of cores             | 4                            |
| Ambient temperature         | -40...+70 °C                 |
| Protection class            | IP69                         |

Technical data

|                        |                                                                           |
|------------------------|---------------------------------------------------------------------------|
| Special features       | Chemical-resistant<br>Encapsulated<br>Wash down<br>Resistant to chemicals |
| Power-on indication    | LED, Green                                                                |
| Switching state        | LED, Yellow                                                               |
| Error indication       | LED, green, Flashing                                                      |
| Excess gain indication | LED                                                                       |
| Alarm display          | LED yellow Flashing                                                       |
| Tests/approvals        |                                                                           |
| Approvals              | CE                                                                        |

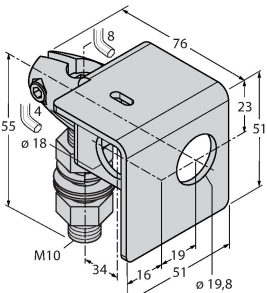
Accessories

SMB18A3033200



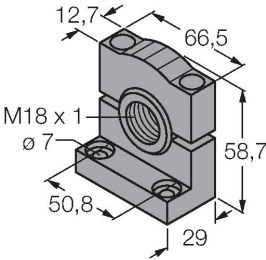
Mounting bracket, rectangular, stainless steel, for sensors with 18 mm thread

SMB18AFAM103012558



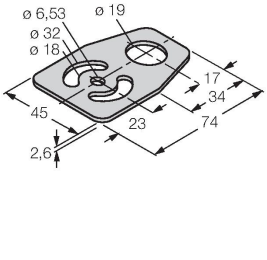
Mounting bracket, material VA 1.4401, for M10 x 1.5 thread, thread length 18 mm

SMB3018SC3053952



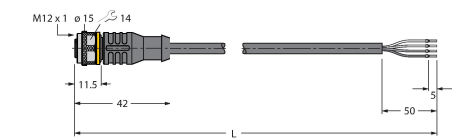
Mounting bracket, PTB black, for sensors with 18 mm thread

SMBAMS18P3073134



Mounting bracket, stainless steel, for sensors with 18 mm thread

Accessories

| Dimension drawing                                                                   | Type          | ID      |                                                                                                                                                                                                                  |
|-------------------------------------------------------------------------------------|---------------|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | RKC4.4T-2/TEL | 6625013 | Connection cable, female M12, straight, 4-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> |

| Dimension drawing                                                                 | Type          | ID      |                                                                                                                                                                                                                |
|-----------------------------------------------------------------------------------|---------------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | WKC4.4T-2/TEL | 6625025 | Connection cable, female M12, angled, 4-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> |