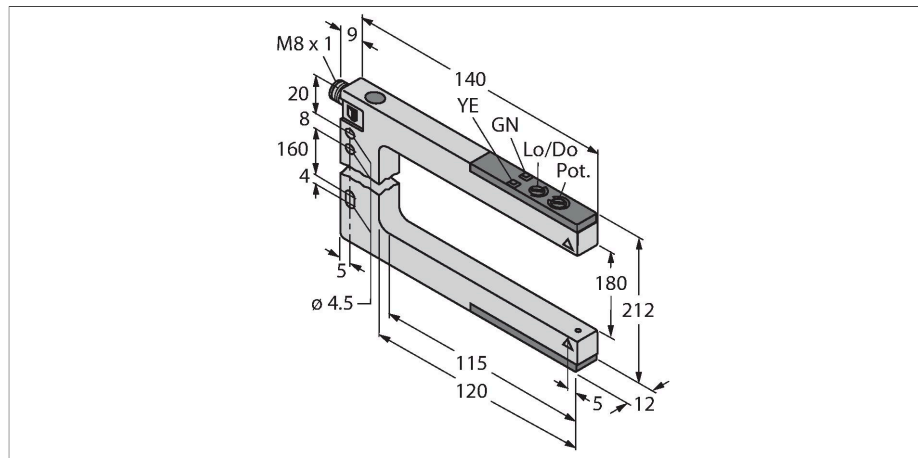


# SLM180P6Q

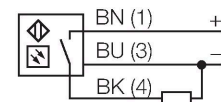
## Photoelectric Sensor – Bifurcated Retroreflective Sensor



### Features

- Male, M8 × 1
- Protection class IP67
- Sensitivity adjusted via potentiometer
- Operating voltage: 10...30 VDC
- PNP switching output, light or dark operation

### Wiring diagram



### Technical data

|                              |                                          |
|------------------------------|------------------------------------------|
| Type                         | SLM180P6Q                                |
| ID                           | 3079215                                  |
| <b>Optical data</b>          |                                          |
| Function                     | Slot sensor                              |
| Operating mode               | Emitter/receiver pair                    |
| Light type                   | Red                                      |
| Wavelength                   | 680 nm                                   |
| Range                        | 180 mm                                   |
| Slot width                   | 180 mm                                   |
| <b>Electrical data</b>       |                                          |
| Operating voltage            | 10...30 VDC                              |
| Residual ripple              | < 10 % U <sub>ss</sub>                   |
| DC rated operational current | ≤ 100 mA                                 |
| No-load current              | ≤ 25 mA                                  |
| Short-circuit protection     | yes                                      |
| Reverse polarity protection  | yes                                      |
| Output function              | NO contact, PNP                          |
| Switching frequency          | ≤ 1000 Hz                                |
| Readiness delay              | ≤ 100 ms                                 |
| Response time typical        | < 0.5 ms                                 |
| Setting option               | Potentiometer                            |
| <b>Mechanical data</b>       |                                          |
| Design                       | Fork, SLM180                             |
| Dimensions                   | 140 x 12 x 202 mm                        |
| Housing material             | Metal, Zinc Die-Cast with Nickel-Plating |
| Lens                         | plastic, Acrylic                         |
| Electrical connection        | Connector, M8 × 1, PVC                   |

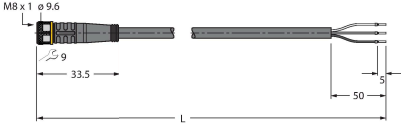
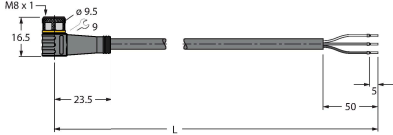
### Functional principle

Bifurcated retro-reflective sensors and opposed mode sensors - The advantages of two sensor types combined in a single compact housing. Additional alignment of emitter and receiver is no longer required. The slot widths are 10 mm, 30 mm, 50 mm, 80 mm, 120 mm and 220 mm. The sensor features a potentiometer to adjust the sensitivity and a rotary switch to set light or dark switching.

Technical data

|                     |                     |
|---------------------|---------------------|
| Number of cores     | 3                   |
| Ambient temperature | -20...+60 °C        |
| Relative humidity   | 0...95 %            |
| Protection class    | IP67                |
| Power-on indication | LED, Green          |
| Switching state     | LED, Yellow         |
| Error indication    | LED                 |
| Alarm display       | LED yellow Flashing |
| Tests/approvals     |                     |
| Approvals           | CE                  |

Accessories

| Dimension drawing                                                                   | Type        | ID      |                                                                                                                                                                                                                 |
|-------------------------------------------------------------------------------------|-------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|   | PKG3M-2/TEL | 6625058 | Connection cable, female M8, straight, 3-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> |
|  | PKW3M-2/TEL | 6625064 | Connection cable, female M8, angled, 3-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>   |