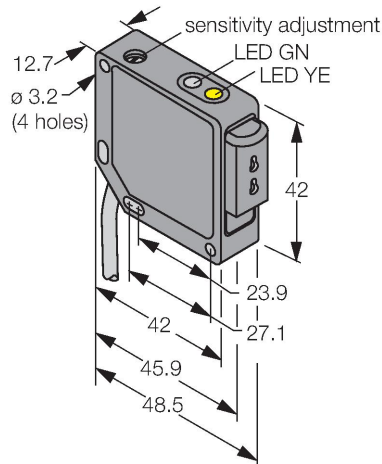


# QM42VP6FP W/30'

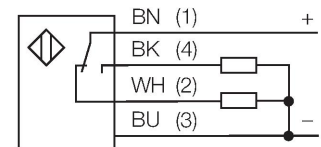
## Photoelectric Sensor – Photoelectric Sensor for Plastic Fibers



### Features

- Cable, PVC, 2 m, 4-wire
- Metal housing, ZN, black
- Protection class IP67
- Sensitivity adjusted via potentiometer
- Operating voltage 10...30 VDC
- PNP switching output
- Light/dark operation

### Wiring diagram



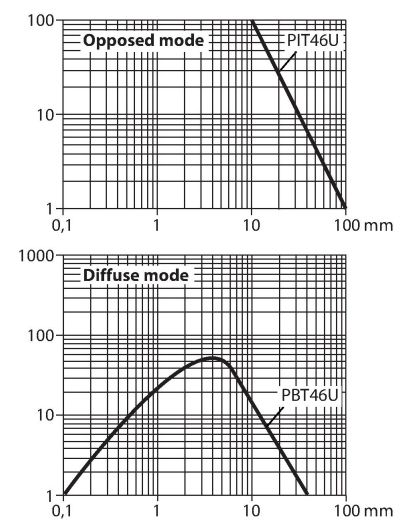
### Technical data

|                              |                           |
|------------------------------|---------------------------|
| Type                         | QM42VP6FP W/30'           |
| ID                           | 3073308                   |
| <b>Optical data</b>          |                           |
| Function                     | Fiber optic sensor        |
| Operating mode               | Plastic fiber             |
| Fiber-optic type             | plastic                   |
| Light type                   | Red                       |
| Wavelength                   | 660 nm                    |
| <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              | ≤ 30 mA                   |
| Short-circuit protection     | yes                       |
| Reverse polarity protection  | yes                       |
| Output function              | NO/NC, PNP                |
| Readiness delay              | ≤ 100 ms                  |
| Overcurrent release          | > 150 mA                  |
| <b>Mechanical data</b>       |                           |
| Design                       | Rectangular, QM42         |
| Dimensions                   | 48.5 x 12.7 x 42 mm       |
| Housing material             | Metal, ZN, Black-finished |
| Electrical connection        | Cable, 2 m, PVC           |
| Number of cores              | 4                         |
| Core cross-section           | 0.5 mm <sup>2</sup>       |

### Functional principle

Glass or fibre optic sensors are the optimum choice for high temperature or space restricted applications. Fibre optics transfer the light from the sensor to a remote object. Individual fibre optics are used for opposed mode sensing, whereas bifurcated fibre optics are suited for diffuse mode operation.

Excess gain curve

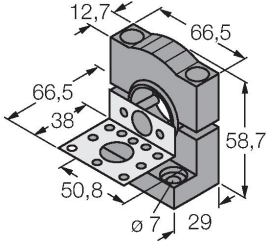


Technical data

|                     |                      |
|---------------------|----------------------|
| Ambient temperature | -20...+70 °C         |
| Protection class    | IP67                 |
| Power-on indication | LED, Green           |
| Switching state     | LED, Yellow          |
| Error indication    | LED, green, Flashing |
| Alarm display       | LED yellow Flashing  |
| Tests/approvals     |                      |
| Approvals           | CE, cURus            |

Accessories

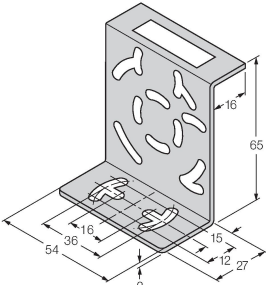
SMB30SK



3052523

Mounting bracket, PBT black, with mounting plate, stainless steel, for types with 18 mm thread, QM42/ QMT42

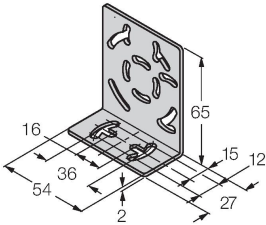
SMB46S



3048748

Mounting bracket, stainless steel, for QS18, QS30, MINI-BEAM, QM42/ QMT42

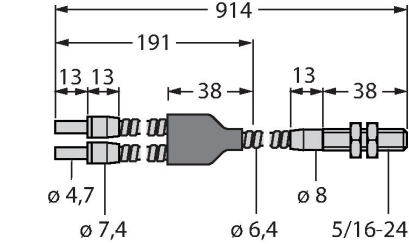
SMB46L



3048747

Mounting bracket, stainless steel, for QS18, QS30, MINI-BEAM, QM42/ QMT42

Accessories

| Dimension drawing                                                                   | Type  | ID      |                                                                                                                                                                 |
|-------------------------------------------------------------------------------------|-------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | BT23S | 3017276 | Glass fiber, sensing mode: Diffuse mode, threaded sleeve (brass), bundle diameter 3.2 mm, flexible stainless steel jacket, ambient temperatures -140... +250 °C |

| Dimension drawing | Type  | ID      |                                                                                                                                                                |
|-------------------|-------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                   | IT23S | 3017355 | Glass fiber, sensing mode: Opposed mode, threaded sleeve (brass), bundle diameter 3.2 mm, flexible stainless steel jacket, ambient temperatures -140...+250 °C |

