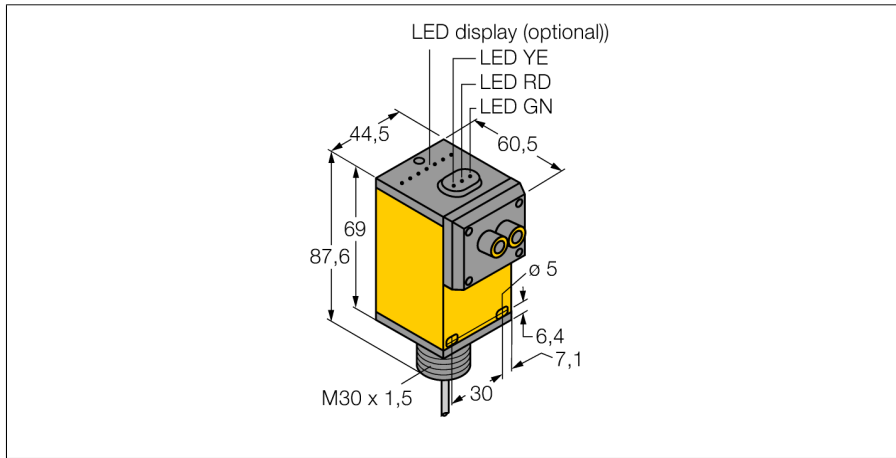
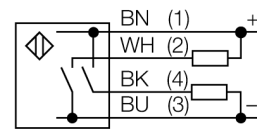


photoelectric sensor
Base unit for optical fibers
Q45BB6FP



- Base unit for optical fiber
- Rectangular plastic housing, lateral light emission
- High excess gain
- Sensitivity adjusted via potentiometer
- Operating voltage: 10...30 VDC
- Switching output, bipolar
- Light or dark operation, adjusted via switch

Wiring diagram

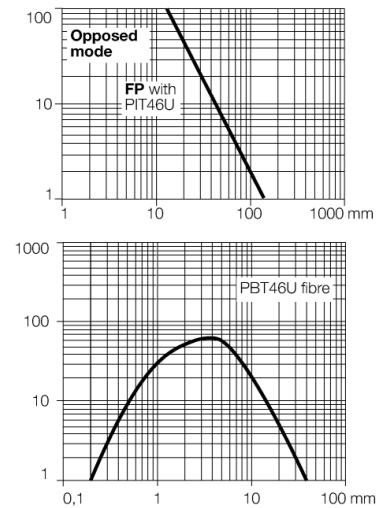


Functional principle

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 retro-reflective or diffuse mode operation.

Excess gain curve

Excess gain in relation to the distance



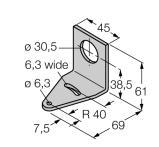
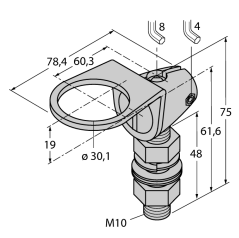
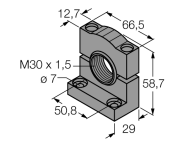
| | |
|--------------------------------|--|
| Type code | Q45BB6FP |
| Ident no. | 3036561 |
| Operating mode | fibre optic sensor |
| Light type | red |
| Wavelength | 660 nm |
| Ambient temperature | -40...+70 °C |
| Operating voltage | 10...30VDC |
| Residual ripple | < 10 % U _s |
| No-load current I ₀ | ≤ 50 mA |
| Short-circuit protection | yes |
| Reverse polarity protection | yes |
| Output function | NO contact, PNP/NPN |
| Switching frequency | ≤ 250 Hz |
| Readiness delay | ≤ 100 ms |
| Overcurrent release | > 220 mA |
| Design | rectangular, Q45 |
| Dimensions | 60.5 x 44.5 x 87.6 mm |
| Housing material | plastic, PBT |
| Lens | plastic, acrylic |
| Connection | cable, PVC |
| Cable length | 2 m |
| Cable cross section | 4 x 0.34 mm ² |
| Protection class | IP67 |
| MTTF | 67 years acc. to SN 29500 (Ed. 99) 40 °C |
| Power-on indication | LED green |
| Switching state | LED yellow |
| Error indication | LED green flashing |
| Excess gain indication | LED red |

photoelectric sensor
Base unit for optical fibers
Q45BB6FP

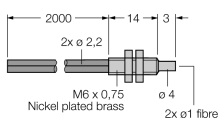
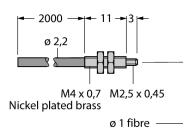
TURCK

Industrial
Automation

Accessories

| Type code | Ident no. | Description | Dimension drawing |
|------------|-----------|--|---|
| SMB30A | 3032723 | Mounting bracket, stainless steel, for sensors with 30 mm thread |  |
| SMB30FAM10 | 3011185 | Mounting bracket, stainless steel, for M10 x 1.5 thread, thread length 30 mm |  |
| SMB30SC | 3052521 | Mounting bracket, PBT black; for 30 mm thread; with 4 screws M5 x 0.8 |  |

Function accessories

| Type code | Ident no. | Description | Dimension drawing |
|-----------|-----------|--|---|
| PBT46U | 3025967 | plastic fibre-optic sensor, sensing mode: diffuse mode sensor, polyethylene cable; for ambient temperatures of -30 °C...+70 °C |  |
| PIT46U | 3026034 | plastic fibre-optic sensor, sensing mode: light screen, polyethylene cable; for ambient temperatures of -30 °C...+70 °C |  |