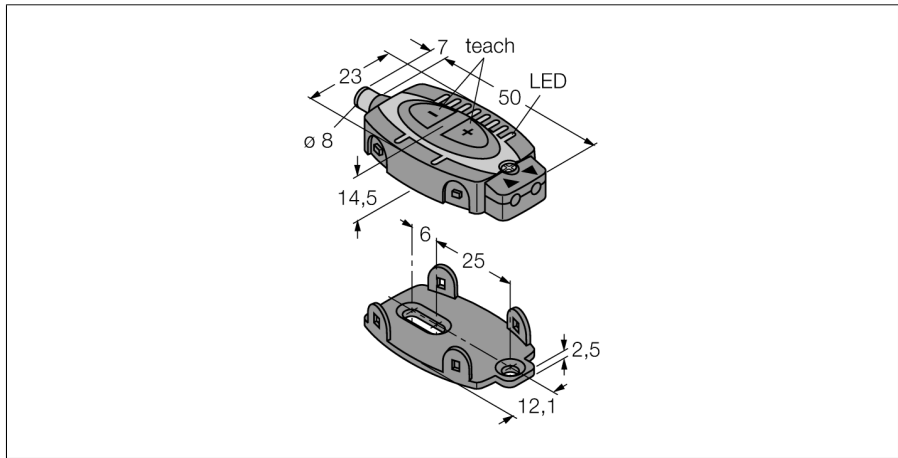
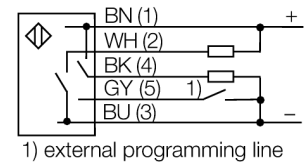


**Photoelectric sensor
base unit for plastic fibers
FI22FPQ**



- Male connector, M8 x 1, 6-pin
- Status LED, 8-segment
- Time delay, adjustable 0 ms/30 ms
- Status LED, 8-segment
- Range with optical fiber PIT46U: 260 mm
- Range with optical fiber PBT46U: 60 mm
- Operating voltage 10...30 VDC
- PNP/NPN switching output
- Light/dark operation

Wiring diagram



| | |
|------------------------------|------------------------------|
| Type code | FI22FPQ |
| Ident no. | 3056289 |
| Operating mode | base unit for plastic fibers |
| Light type | red |
| Wavelength | 660 nm |
| Ambient temperature | -10...+55 °C |
| Operating voltage | 10...30VDC |
| Residual ripple | < 10 % U _s |
| DC rated operational current | ≤ 100 mA |
| Short-circuit protection | yes |
| Reverse polarity protection | yes |
| Output function | NO contact, PNP/NPN |
| Switching frequency | ≤ 1000 Hz |
| Readiness delay | ≤ 250 ms |
| Design | rectangular, FI22 |
| Dimensions | 50 x 23 x 14.5 mm |
| Housing material | plastic, ABS, black |
| Connection | male, Ø 8 mm |
| Protection class | IP67 |
| Power-on indication | LED green |
| Switching state | LED yellow |

Functional principle

Plastic fibre optics are often the optimum solution for limited space 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.

**Photoelectric sensor
base unit for plastic fibers
FI22FPQ**

Wiring accessories

| Type code | Ident no. | Description | Dimension drawing |
|-----------|-----------|---|-------------------|
| PKG6Z-2 | 3062985 | Connection cable, PVC, length 2 m, with female end M8 x 1, angled, 6-pin, on open end | |
| PKG6Z-9 | 3062986 | Anschlusskabel, PVC, Länge 9 m, mit Kupplung, M8 x 1, 6-polig, auf offenes Ende | |
| PKW6Z-2 | 3062998 | Connection cable, PVC, length 2 m, with female end M8 x 1, angled, 6-pin, on open end | |
| PKW6Z-9 | 3062999 | Connection cable, PVC, length 9 m, with female end M8 x 1, angled, 6-pin, on open end | |

Function accessories

| Type code | Ident no. | Description | Dimension drawing |
|-----------|-----------|--|-------------------|
| PIT26U | 3026079 | Plastic fiber, sensing mode: Opposed mode, threaded bush M3 x 0.5 mm, preassembled wire without end tip, polyethylene jacket, ambient temperatures -30 °C...+70 °C | |
| PIT46U | 3026034 | plastic fibre-optic sensor, sensing mode: light screen, polyethylene cable; for ambient temperatures of -30 °C...+70 °C | |
| PIT66U | 3039899 | Plastic fiber, sensing mode: Opposed mode, bundle diameter Ø 1,5 mm, threaded bush M2,5 x 0.45, preassembled wire without end tip, polyethylene jacket, ambient temperatures -30 °C...+70 °C | |
| PBT26U | 3026080 | Plastic fiber, sensing mode: Diffuse mode, threaded bush M3 x 0.75 mm, preassembled wire without end tip, polyethylene jacket, ambient temperatures -30 °C...+70 °C | |

**Photoelectric sensor
base unit for plastic fibers
FI22FPQ**

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 | <p>2000 14 3 2x ϕ 2,2 M6 x 0,75 Nickel plated brass ϕ 4 2x ϕ 1 fibre</p> |
| PBT66U | 3039982 | Plastic fiber, sensing mode: Diffuse mode, threaded bush M6 x 0.75 mm, preassembled wire without end tip, polyethylene jacket, ambient temperatures -30 °C...+70 °C | <p>2000 14 3 2x ϕ 2,2 M6 x 0,75 Nickel plated brass ϕ 4 2x ϕ 1,5 fibre</p> |