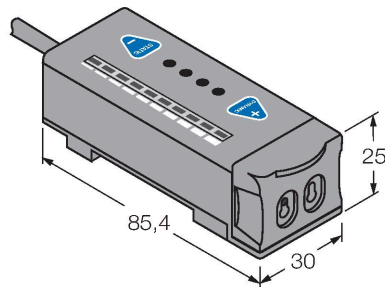


# R55FVG W/30

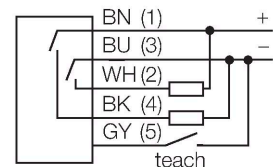
## Photoelectric Sensor – Photoelectric Sensor for Glass Fibers



### Features

- Cable, PVC, 9 m, 5-wire
- Protection class IP67
- Teach button
- 10-segment bargraph
- Switch-off delay (no delay, 20 ms, 40 ms)
- Green emitter LED
- Operating voltage: 10...30 VDC
- Switching output, bipolar
- Light or dark operation

### 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 diffuse mode operation.

### Technical data

|                             |                                        |
|-----------------------------|----------------------------------------|
| Type                        | R55FVG W/30                            |
| ID no.                      | 3058010                                |
| <b>Optical data</b>         |                                        |
| Function                    | Photoelectric sensor for glass fibers  |
| Fiber-optic type            | glass                                  |
| Light type                  | Green                                  |
| Wavelength                  | 525 nm                                 |
| <b>Electrical data</b>      |                                        |
| Operating voltage           | 10...30 VDC                            |
| Residual ripple             | < 10 % U <sub>ss</sub>                 |
| No-load current             | ≤ 70 mA                                |
| Short-circuit protection    | yes                                    |
| Reverse polarity protection | yes                                    |
| Output function             | NO contact, PNP/NPN                    |
| Switching frequency         | 10 kHz                                 |
| Readiness delay             | ≤ 100 ms                               |
| Response time typical       | < 0.05 ms                              |
| Setting option              | Push Button<br>Remote Teach            |
| <b>Mechanical data</b>      |                                        |
| Design                      | Rectangular, R55F                      |
| Dimensions                  | 85.4 x 30 x 25 mm                      |
| Housing material            | Plastic, Thermoplastic material, Black |
| Electrical connection       | Cable, 9 m, PVC                        |
| Number of cores             | 5                                      |
| Core cross-section          | 0.34 mm <sup>2</sup>                   |
| Ambient temperature         | -10...+55 °C                           |



|                   |       |         |                                                                                                                                                                |
|-------------------|-------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dimension drawing | Type  | ID no.  |                                                                                                                                                                |
|                   | 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 |

