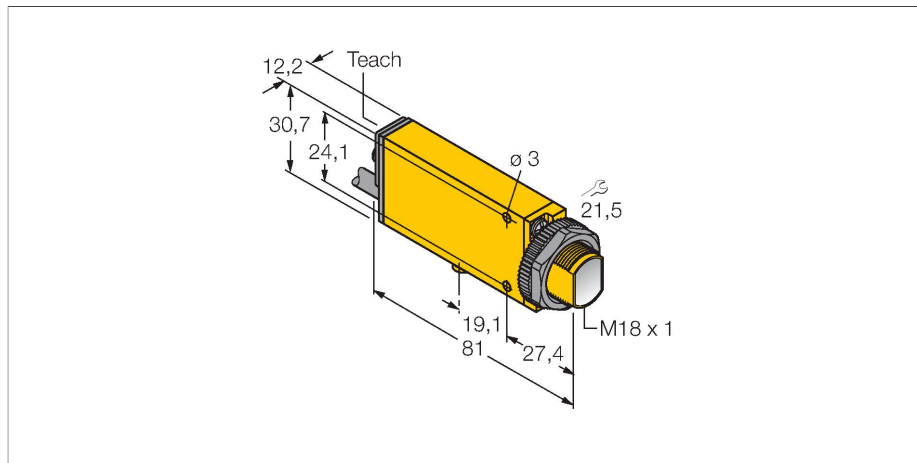


SMU315FQDP

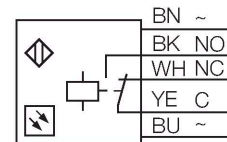
Photoelectric Sensor – Photoelectric Sensor for Glass Fibers



Features

- Cable, PVC, 2 m
- Protection class IP67
- Sensitivity adjusted via potentiometer
- Alignment indicator
- Operating voltage: 24...240 VDC or 24...240 VAC
- Relay output

Wiring diagram



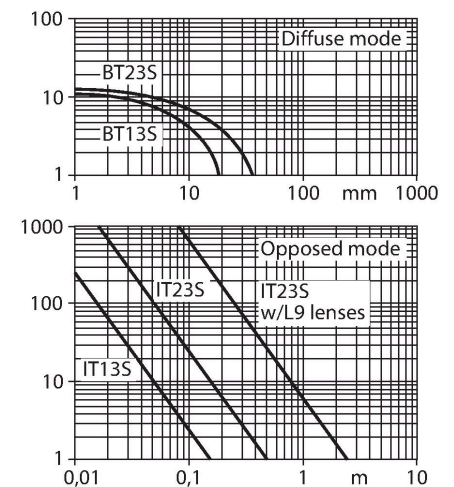
Technical data

| | |
|------------------------------|---|
| Type | SMU315FQDP |
| ID | 3067930 |
| Optical data | |
| Function | Fiber optic sensor |
| Operating mode | Glass fiber |
| Fiber-optic type | glass |
| Light type | IR |
| Wavelength | 880 nm |
| Electrical data | |
| Operating voltage | 24...240 VDC |
| Operating voltage | 24...240 VAC |
| DC rated operational current | ≤ 3000 mA |
| AC rated operational current | ≤ 3000 mA |
| Output function | NO/NC, Relay output |
| Switching frequency | ≤ 25 Hz |
| Readiness delay | ≤ 1000 ms |
| Response time typical | < 20 ms |
| Max. DC switching capacity | 1 W |
| Setting option | Potentiometer |
| Mechanical data | |
| Design | Rectangular with thread, Mini Beam |
| Dimensions | 81 x 12.3 x 30.7 mm |
| Housing material | Plastic, Thermoplastic material, Yellow |
| Electrical connection | Cable with connector, 1/2", 0.15 m, PVC |
| Number of cores | 5 |
| Core cross-section | 0.5 mm ² |
| Ambient temperature | -20...+55 °C |

Functional principle

Glass or plastic fibers are the optimum choice for high-temperature applications and limited spaces. Optical fibers transfer the light from the sensor to a remote object. Individual fibers are used for opposed sensing mode, whereas bifurcated fibers are suited for diffuse sensing mode.

Excess gain curve
Excess gain in relation to distance



Technical data

| | |
|------------------------|--------------------|
| Relative humidity | 0...90 % |
| Protection class | IP67 |
| Special features | Wash down |
| Switching state | LED, Red |
| Excess gain indication | LED, red, flashing |
| Tests/approvals | |
| Approvals | CE, cURus, CSA |

Accessories

| | | | |
|-------------------------|--|---------------------------|--|
| <p>SMB18A</p> | <p>3033200</p> <p>Mounting bracket, rectangular, stainless steel, for sensors with 18 mm thread</p> | <p>SMB18AFAM10</p> | <p>3012558</p> <p>Mounting bracket, material VA 1.4401, for M10 x 1.5 thread, thread length 18 mm</p> |
| <p>SMB18SF</p> | <p>3052519</p> <p>Mounting bracket, PBT black, for sensors with 18 mm thread, rotatable</p> | <p>SMB312B</p> | <p>3025519</p> <p>Mounting bracket, stainless steel, for MINI-BEAM NAMUR</p> |
| <p>SMB3018SC</p> | <p>3053952</p> <p>Mounting bracket, PTB black, for sensors with 18 mm thread</p> | | |

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 |

| | | | |
|--|-------|---------|--|
| | 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 |
|--|-------|---------|--|