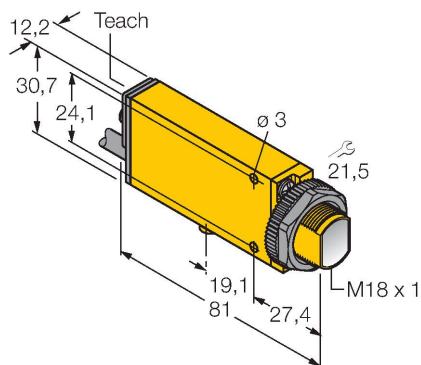


# SMU315FP W/30

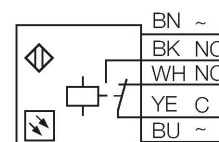
## Photoelectric Sensor – Photoelectric Sensor for Plastic Fibers



### 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



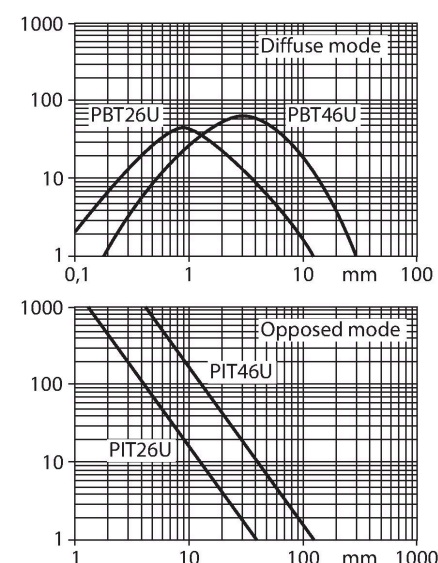
### Technical data

|                              |                                         |
|------------------------------|-----------------------------------------|
| Type                         | SMU315FP W/30                           |
| ID                           | 3067965                                 |
| <b>Optical data</b>          |                                         |
| Function                     | Fiber optic sensor                      |
| Operating mode               | Plastic fiber                           |
| Fiber-optic type             | plastic                                 |
| Light type                   | Red                                     |
| Wavelength                   | 650 nm                                  |
| <b>Electrical data</b>       |                                         |
| 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                           |
| <b>Mechanical data</b>       |                                         |
| Design                       | Rectangular, Mini Beam                  |
| Dimensions                   | 81 x 12,3 x 30,7 mm                     |
| Housing material             | Plastic, Thermoplastic material, Yellow |
| Electrical connection        | Cable, 9 m, PVC                         |
| Number of cores              | 5                                       |
| Core cross-section           | 0,5 mm <sup>2</sup>                     |
| 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.

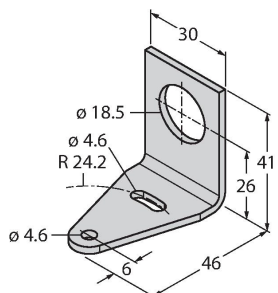
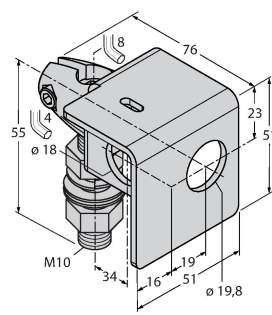
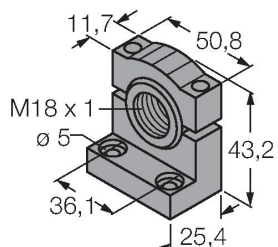
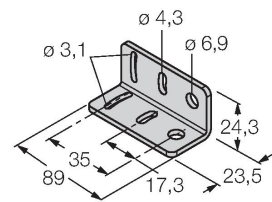
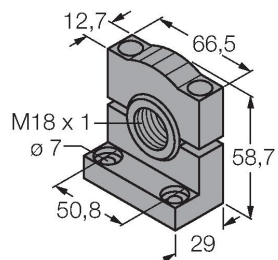
Excess gain curve  
Excess gain in relation to distance



## Technical data

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

## Accessories

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