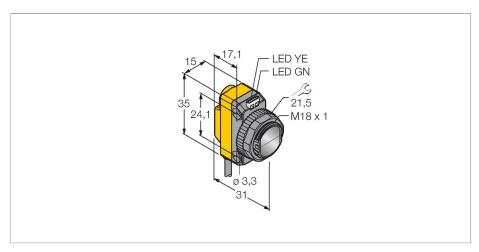
QS18VP6FF125 Photoelectric Sensor – Diffuse Mode Sensor with Fixed-Field Background Suppression



Technical data

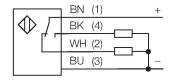
| Туре | QS18VP6FF125 |
|------------------------------|---|
| ID no. | 3808322 |
| Optical data | |
| Function | Diffuse mode sensor with fixed-field background suppression |
| Light type | Red |
| Wavelength | 660 nm |
| Range | 1125 mm |
| Electrical data | |
| Operating voltage | 1030 VDC |
| Residual ripple | < 10 % U _{ss} |
| DC rated operational current | ≤ 100 mA |
| Short-circuit protection | yes |
| Reverse polarity protection | yes |
| Output function | NO/NC, PNP |
| Current output | 100 mA |
| Switching frequency | ≤ 625 Hz |
| Mechanical data | |
| Design | Rectangular, QS18 |
| Dimensions | 31 x 15 x 35 mm |
| Housing material | Plastic, ABS |
| Lens | plastic, Acrylic |
| Electrical connection | Cable, 2 m, PVC |
| Number of cores | 4 |
| Core cross-section | 0.35 mm² |
| Ambient temperature | -20+70 °C |



Features

- ■Cable, PVC, 2 m
- ■Protection class IP67
- ■LED all-round visible
- Operating voltage: 10...30 VDC
- ■PNP switching output, changeover

Wiring diagram



Functional principle

Diffuse mode sensors with background suppression operate with a single emitter and several receiver elements. The target position and the photoelectric structure of the sensor determine which of the receiving elements receives the most light. The sensor electronics determine whether the reflecting object is within or outside the measuring range. These sensors come with a fixed cut-off point.

Excess gain curve Excess gain in relation to the distance

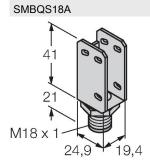
Technical data

| Protection class | IP67 |
|------------------------|---|
| Power-on indication | LED, Green |
| Switching state | LED, Yellow |
| Error indication | LED, green, Flashing |
| Excess gain indication | LED, yellow, flashing |
| Tests/approvals | |
| MTTF | 965 years acc. to SN 29500 (Ed. 99) 40 °C |
| Approvals | CE, cURus |

Accessories

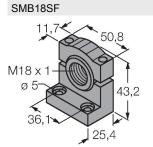
| SMB18A | 3033200 |
|------------------------------------|---|
| Ø 18.5 Ø 4.6 R 24.2 Ø 4.6 | Mounting bracket, rectangular, stainless steel, for sensors with 18 mm thread |
| 6 46 | |

3012558 Mounting bracket, material VA 1.4401, for M10 x 1.5 thread, thread length 18 mm



Mounting bracket, stainless steel, for 18 mm thread

3069721



Mounting bracket, PBT black, for sensors with 18 mm thread, rotatable

3052519