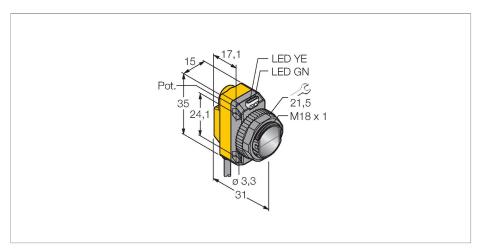


QS18VN6LP W/30 Photoelectric Sensor – Retroreflective Sensor with Polarizing Filter



Technical data

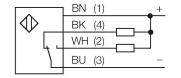
| Туре | QS18VN6LP W/30 |
|--------------------------------|-------------------------------|
| ID no. | 3061629 |
| Optical data | |
| Function | Retroreflective Sensor |
| Operating mode | Polarized |
| Reflector included in delivery | no |
| Light type | Red polarized |
| Wavelength | 630 nm |
| Range | 503500 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, NPN |
| Current output | 100 mA |
| Switching frequency | ≤ 800 Hz |
| Readiness delay | ≤ 100 ms |
| Response time typical | < 0.6 ms |
| Setting option | Potentiometer |
| Mechanical data | |
| Design | Rectangular with thread, QS18 |
| Dimensions | Ø 18 x 31 x 15 x 35 mm |
| Housing material | Plastic, ABS |
| Lens | plastic, Acrylic |



Features

- Cable, PVC, 9 m
- ■Protection class IP67
- ■LED all-round visible
- Sensitivity adjusted via potentiometer
- Operating voltage: 10...30 VDC
- ■NPN switching output, changeover

Wiring diagram



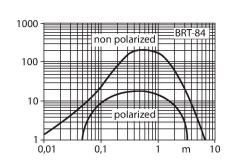
Functional principle

Retroreflective sensors have emitter and receiver circuitry incorporated in the same housing. The light beam of the emitter is directed towards a reflector which returns the light back to the receiver. A target is detected when it interrupts this beam. Retroreflective sensors feature some of the advantages of opposed mode sensors, such as good contrast and high excess gain. Furthermore, only one device has to be installed and wired. Devices without polarizing filter have a smaller sensing range and are more susceptible to disturbances caused by shiny objects.

Excess gain curve Excess gain in relation to the distance (polarized)

Technical data

| Electrical connection | Cable, 9 m, PVC |
|------------------------|-----------------------|
| Number of cores | 4 |
| Core cross-section | 0.35 mm² |
| Ambient temperature | -20+70 °C |
| 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 | |
| Approvals | CE, cURus |

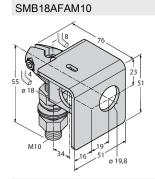


Accessories

SMB18A mm thread ø 18.5

Mounting bracket, rectangular, stainless steel, for sensors with 18

3033200

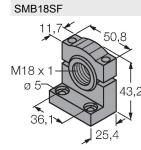


3012558 Mounting bracket, material VA 1.4401, for M10 x 1.5 thread, thread length 18 mm

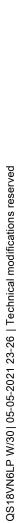
41 21 M18 x 1 19,4

SMBQS18A

3069721 Mounting bracket, stainless steel, for 18 mm thread



3052519 Mounting bracket, PBT black, for sensors with 18 mm thread, rotatable



TURCK

Accessories

Dimension drawing Type ID no.

BRT-84 3058979 Round reflector, reflection coefficient

