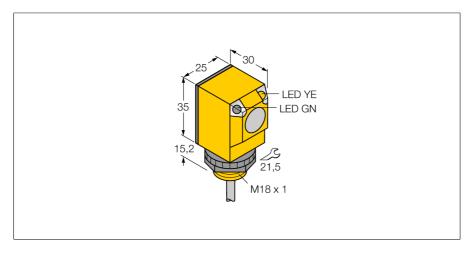


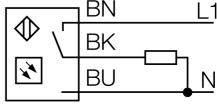
Photoelectric Sensor Opposed Mode Sensor (Receiver) Q25RW3RE





- Cable, 2 m
- Protection class IP67
- Ambient temperature: -40...+70 °C
- Selectable light/dark operation or light operation with alarm function

Wiring Diagram



Functional principle

Opposed mode sensors consist of an emitter and receiver. They are installed opposite each other so that the light from the emitter is aimed directly at the receiver. When an object interrupts or weakens the light beam, the sensor switches. Opposed mode sensors are the most reliable photoelectric sensors for detection of opaque targets. An excellent contrast between light and dark conditions and an extremly high excess gain are typical of this sensing mode, thus allowing operation over larger distances and under difficult conditions.

Excess gain curve

Excess gain in relation to the distance

| Туре | Q25RW3RE | |
|----------------------------------|---------------------------------|--|
| ID | 3037097 | |
| | | |
| Optical data | | |
| Function | Opposed mode sensor | |
| Operating mode | Emitter/receiver pair | |
| Range | 020000 mm | |
| Electrical data | | |
| Operating voltage U _B | 20250VAC | |
| AC rated operational current | ≤ 200 mA | |
| Output function | Dark operation, Relay output | |
| Switching frequency | ≤ 40 Hz | |
| Readiness delay | ≤ 100 ms | |
| Response time typical | < 16 ms | |
| Mechanical data | | |
| Design | Rectangular, Q25 | |
| Dimensions | Ø 18 x 30 x 25 x 50.2 mm | |
| Housing material | Plastic, Thermoplastic material | |
| Lens | plastic, Polycarbonate | |
| Electrical connection | Cable, 2 m, PVC | |
| Number of cores | 3 | |
| Core cross-section | 0.5 mm ² | |
| Ambient temperature | -40+70 °C | |
| Protection class | IP69 | |
| Chanial factures | Chemical-resistant | |
| Special features | Encapsulated | |
| | Wash down | |
| Power-on indication | LED, Green | |
| Switching state | LED, Gleen LED, Yellow | |
| Excess gain indication | LED, Tellow | |
| | LLU | |
| Tests/approvals | | |
| Approvals | CE, UL, CSA | |



Accessories

| Type code | Ident no. | | Dimension drawing |
|-------------|-----------|---|--|
| SMB18A | 3033200 | Mounting bracket, rectangular, stainless steel, for sensors with 18 mm thread | 0 18.5 0 4.6 R 24.2 0 4.6 |
| SMB18AFAM10 | 3012558 | Mounting bracket, material VA 1.4401, for M10 x 1.5 thread, thread length 18 mm | M10 34 16 51 0 19.8 |
| SMB18SF | 3052519 | Mounting bracket, PBT black, for sensors with 18 mm thread, rotatable | 11.7 50.8 M18 x 1 43.2 9 5 43.2 36,1 25,4 |