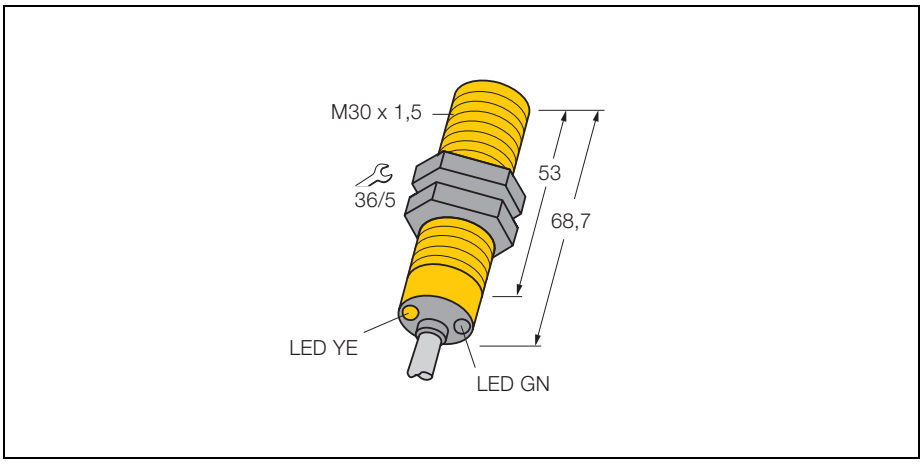
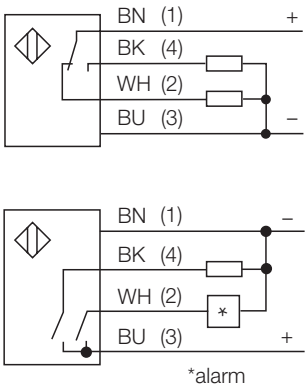
# Photoelectric sensor
# retro-reflective sensor with polarisation filter
# S30SP6LP




- **cable, 2 m**
- **operational voltage 10..0.30 VDC**
- **degree of protection IP69K**

**Wiring diagram**

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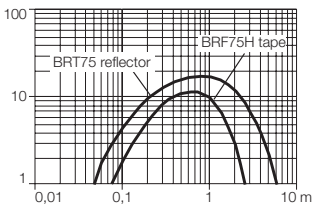
|---|---|
| **Type** | S30SP6LP |
| Ident-No. | 3460400 |
| **Operating mode** | Retro-reflective sensor with polarising filter |
| Type of light | red |
| Wave length | 680 nm |
| Max. sensing range [m] | 0,05... 6 m |
| Operating temperature | -40 ...+ 70 °C |
| **Rated operational voltage (DC) $U_B$** | 10... 30 VDC |
| Rated operational current (DC) $I_e$ | ≤ 150 mA |
| No-load current $I_0$ | ≤ 30 mA |
| Short-circuit protection | yes, cyclic |
| Reverse polarity protection | yes |
| Output function | connection programmable, PNP |
| Switching frequency | ≤ 160 Hz |
| Max. switch-on delay | ≤ 100 ms |
| Overload trip point | >220 mA |
| **Housing style** | cylindrical/thread; S30 |
| Dimensions | 68,7 mm |
| Housing material | plastic, PBT |
| Lens | Plastic, Acryl |
| Wiring | cable |
| Cable length | 2 m |
| Cable cross section | 4 x 0,5 $mm^2$ |
| Degree of protection | IP68 - IP69K |
| **Supply voltage indication** | LED green |
| Switching status indication | LED yellow |
| Error indication | LED green flashing |
| Alarm indication | LED yellow flashing |

**Function principles**

With retro-reflective sensors, emitter and receiver are incorporated in one compact housing. The light beam of the emitter is directed towards a reflector which returns the light back to the receiver. An object is detected when it interrupts this beam. Retro-reflective sensors have a high function gain and good contrast performance. Further it is merely required to install and wire a single device.

**Excess gain curve**

Excess gain in relation to the distance



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