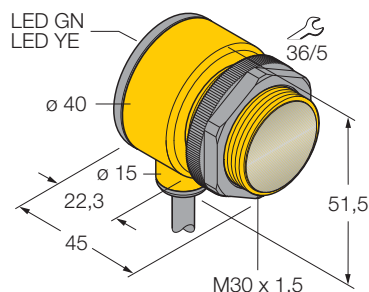


# photoelectric sensor

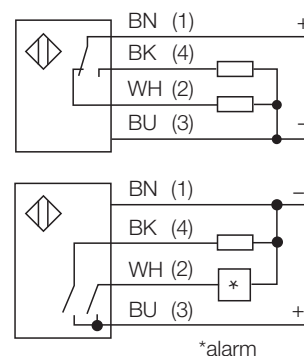
## retro-reflective sensor with polarisation filter

### T30SP6LP



- Connection cable, 2 m
- degree of protection IP68 - IP69K
- Operating voltage 10...30 VDC
- pnp switching output
- degree of protection IP69K

#### Wiring diagram

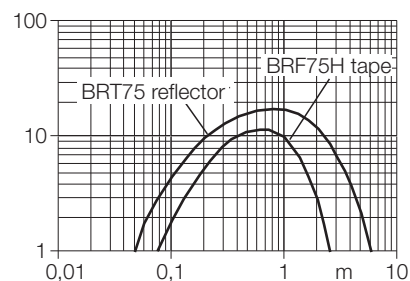


#### Functional principle

Retro-reflective sensors incorporate emitter and receiver in a single 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



|                                |                                                  |
|--------------------------------|--------------------------------------------------|
| <b>Type</b>                    | T30SP6LP                                         |
| Ident-No.                      | 3032488                                          |
| <b>Operating mode</b>          | retro-reflective sensor with polarisation filter |
| Light type                     | red                                              |
| Wavelength                     | 680 nm                                           |
| Range                          | 50... 6000 mm                                    |
| Ambient temperature            | -40...+ 70°C                                     |
| <b>Operating voltage</b>       | 10... 30 VDC                                     |
| DC rated operational current   | ≤ 150 mA                                         |
| No-load current I <sub>0</sub> | ≤ 30 mA                                          |
| Output function                | connection programmable, PNP                     |
| Switching frequency            | ≤ 160Hz                                          |
| Readiness delay                | ≤ 100 ms                                         |
| Overcurrent release            | >220 mA                                          |
| <b>Housing</b>                 | cylindrical/threaded, T30                        |
| Dimensions                     | 45x 40x 51.5mm                                   |
| Housing material               | Plastic, PBT                                     |
| Lens                           | plastic, acrylic                                 |
| Electrical connection          | cables                                           |
| Cable length                   | 2 m                                              |
| Cable cross section:           | 4 x 0.5mm <sup>2</sup>                           |
| Protection class               | IP68 / IP69K                                     |
| <b>Operating voltage</b>       | LED green                                        |
| Switching state                | LED yellow                                       |
| Error indication               | LED green flashing                               |
| Alarm display                  | LED yellow flashing                              |