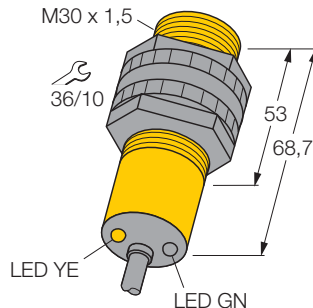


# photoelectric sensor

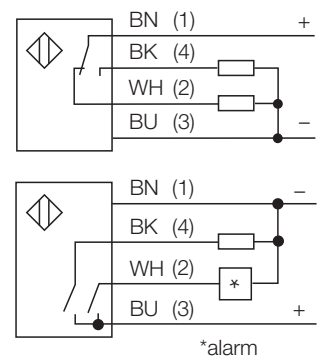
## diffuse mode sensor with background suppression

### S30SP6FF400



- selectable light or dark operation or light operation with alarm function
- Connection cable, 2 m
- degree of protection IP68 - IP69K
- Operating voltage 10...30 VDC
- pnp switching output
- degree of protection IP69K

#### Wiring diagram

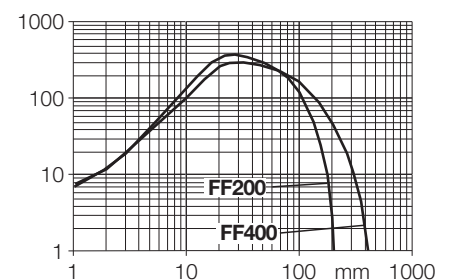


#### Functional principle

The emitter and receiver are incorporated in a single housing. The light reflection of the target is detected and triggers the sensor to switch. Thus the switching distance largely depends on the reflectivity of the target.

#### Excess gain curve

Excess gain in relation to the distance



|                                |                                                             |
|--------------------------------|-------------------------------------------------------------|
| <b>Type</b>                    | S30SP6FF400                                                 |
| Ident-No.                      | 3032333                                                     |
| <b>Operating mode</b>          | diffuse mode sensor with fixed-field background suppression |
| Light type                     | IR                                                          |
| Wavelength                     | 880 nm                                                      |
| Range                          | 0... 400 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> | ≤ 35 mA                                                     |
| Output function                | connection programmable, PNP                                |
| Switching frequency            | ≤ 160Hz                                                     |
| Readiness delay                | ≤ 100 ms                                                    |
| Overcurrent release            | >220 mA                                                     |
| <b>Housing</b>                 | cylindrical/threaded, S30                                   |
| Dimensions                     | 68.7mm                                                      |
| Housing diameter               | Ø 30mm                                                      |
| 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                                         |