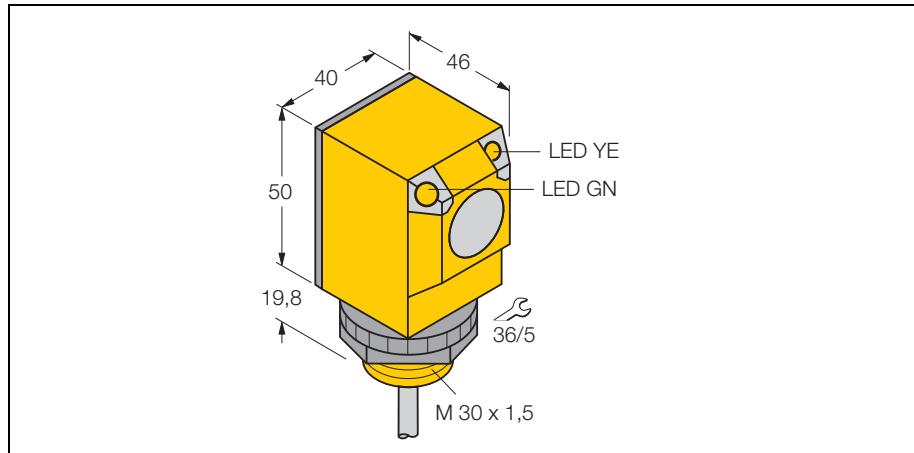


# photoelectric sensor

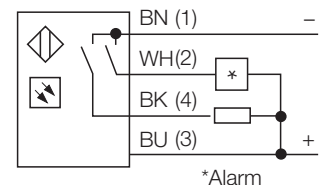
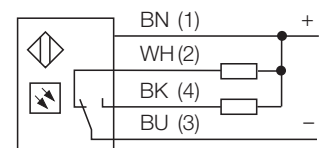
## diffuse mode sensor with background suppression

### Q40SN6FF200



- selectable light or dark operation or light operation with alarm function
- Connection cable, 2 m
- degree of protection IP68 - IP69K
- Operating voltage 10...0 VDC
- npn switching output
- degree of protection IP69K

#### Wiring diagram

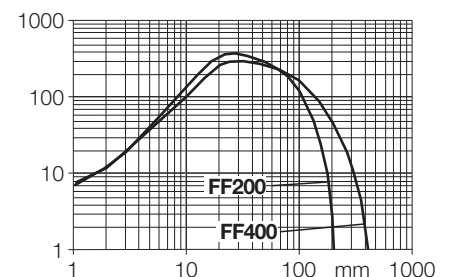


#### Functional principle

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>                  | Q40SN6FF200                                                 |
| Ident-No.                    | 3032363                                                     |
| <b>Operating mode</b>        | diffuse mode sensor with fixed-field background suppression |
| Light type                   | IR                                                          |
| Wavelength                   | 880 nm                                                      |
| Range                        | 0... 200 mm                                                 |
| Ambient temperature          | -40...+ 70°C                                                |
| <b>Operating voltage</b>     | 10... 30 VDC                                                |
| DC rated operational current | ≤ 150 mA                                                    |
| No-load current $I_0$        | ≤ 35 mA                                                     |
| Output function              | connection programmable, NPN                                |
| Switching frequency          | ≤ 160Hz                                                     |
| Readiness delay              | ≤ 100 ms                                                    |
| Overcurrent release          | >220 mA                                                     |
| <b>Housing</b>               | rectangular, Q40                                            |
| Dimensions                   | 46x 40x 69.8mm                                              |
| 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                                         |