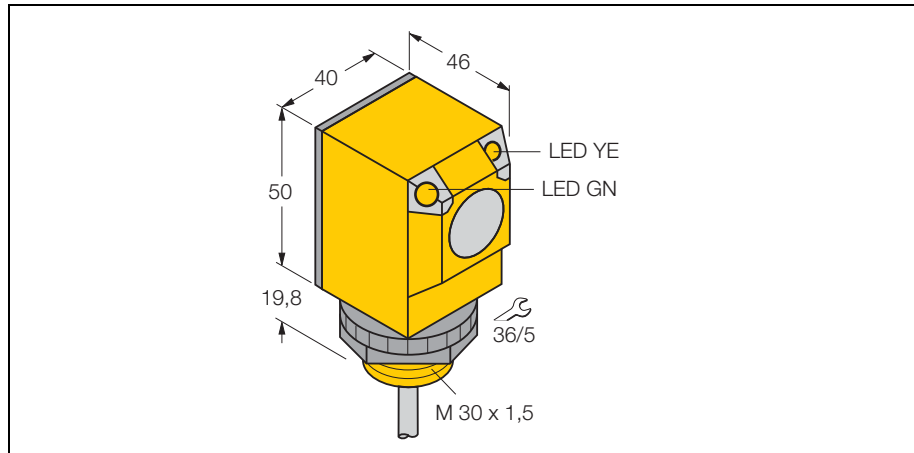


**photoelectric sensor  
emitter  
Q406E**

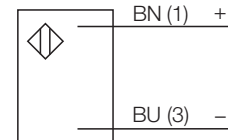
**TURCK**

Industrial  
Automation



- Connection cable, 2 m
- degree of protection IP68 - IP69K

**Wiring diagram**

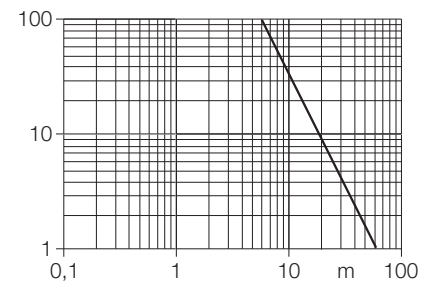


**Functional principle**

Opposed mode sensors consist of an emitter and receiver. They are installed opposite to 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. The excellent light/dark contrast and the high excess gain allow operation over larger distances and under difficult conditions.

**Excess gain curve**

Excess gain in relation to the distance



|                                |                               |
|--------------------------------|-------------------------------|
| <b>Type</b>                    | Q406E                         |
| Ident-No.                      | 3032375                       |
| <b>Operating mode</b>          | opposed mode sensor (emitter) |
| Light type                     | IR                            |
| Wavelength                     | 950 nm                        |
| Range                          | 0... 60000 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> | ≤ 20 mA                       |
| <b>Housing</b>                 | rectangular, Q40              |
| Dimensions                     | 46x 40x 69.8mm                |
| Housing material               | Plastic, PBT                  |
| Lens                           | plastic, Lexan                |
| Electrical connection          | cables                        |
| Cable length                   | 2 m                           |
| Cable cross section:           | 2 x 0.5mm <sup>2</sup>        |
| Protection class               | IP68 / IP69K                  |
| <b>Operating voltage</b>       | LED green                     |