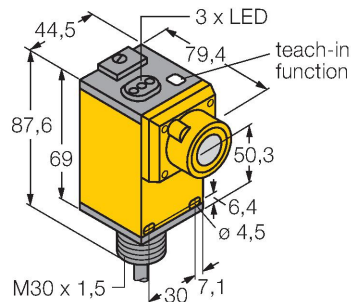


# Q45UBB63BC W/30

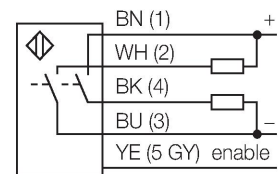
## Ultrasonic Sensor – diffuse mode sensor With Switching Output



### Features

- Start and End of switching range adjustable via teach button
- NO/NC output function
- Response time, adjustable
- Pump function
- PNP transistor output (NO)
- Aperture angle of sonic cone 12 °
- Blind zone: 25 cm
- Range: 300 cm

### Wiring diagram



### Functional principle

Ultrasonic sensors detect a multitude of objects contactless and wear-free with ultrasonic waves. Regardless of whether the object is transparent or opaque, metallic or non-metallic, liquid, solid or powdery. Even environmental conditions such as spray, dust or rain hardly affect their function.

### Technical data

|                             |                                   |
|-----------------------------|-----------------------------------|
| Type                        | Q45UBB63BC W/30                   |
| ID                          | 3046361                           |
| <b>Ultrasonic data</b>      |                                   |
| Function                    | Proximity switch                  |
| Range                       | 250...3000 mm                     |
| Ultrasound frequency        | 128 kHz                           |
| Repeatability               | ≤ ± 0.5 mm                        |
| Temperature drift           | ≤ 0.13 % of full scale/K          |
| <b>Electrical data</b>      |                                   |
| Operating voltage           | 12...24 VDC                       |
| Response time typical       | < 40 ms                           |
| Output function             | NO contact, PNP/NPN               |
| Switching frequency         | ≤ 50 Hz                           |
| Hysteresis                  | ≤ 1 mm                            |
| Short-circuit protection    | yes / Cyclic                      |
| Reverse polarity protection | Complete                          |
| <b>Mechanical data</b>      |                                   |
| Design                      | Rectangular, Q45                  |
| Radiation direction         | straight                          |
| Dimensions                  | 79.4 x 44.5 x 87.6 mm             |
| Housing material            | Plastic, PBT                      |
| Transducer material         | Plastic, Epoxyd resin and PU foam |
| Electrical connection       | Cable, 9 m, PVC                   |
| Ambient temperature         | -25...+70 °C                      |
| Relative humidity           | 100 %                             |

Technical data

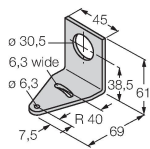
|                  |                                          |
|------------------|------------------------------------------|
| Protection class | IP67                                     |
| Tests/approvals  |                                          |
| MTTF             | 50 years acc. to SN 29500 (Ed. 99) 40 °C |
| Approvals        | CE                                       |

Accessories

SMB30A

3032723

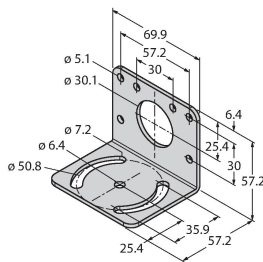
Mounting bracket, rectangular, stainless steel, for sensors with 30mm thread



SMB30MM

3027162

Mounting bracket, rectangular, stainless steel, for sensors with 30 mm thread, wide holes for accurate alignment



SMB30SC

3052521

Mounting bracket, PBT black, for sensors with 30 mm thread, rotatable

