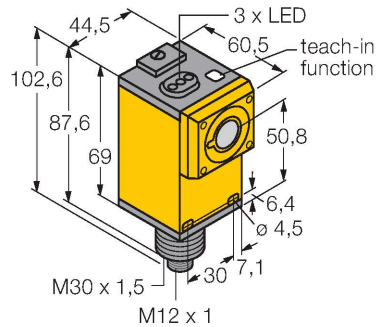


# Q45UBB63DAQ6

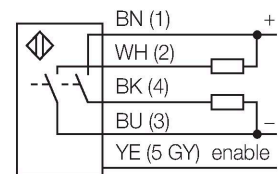
## Ultrasonic Sensor – diffuse mode sensor With Switching Output



### Features

- Start and End of switching range adjustable via teach button
- NO/NC output function
- Response time, adjustable
- Pump function
- PNP/NPN transistor output (NO contact)
- Aperture angle of sonic cone 15 °
- Blind zone: 10 cm
- Range: 140 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

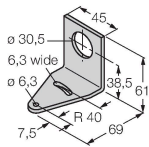
|                             |                                   |
|-----------------------------|-----------------------------------|
| Type                        | Q45UBB63DAQ6                      |
| ID                          | 3044130                           |
| <b>Ultrasonic data</b>      |                                   |
| Function                    | Proximity switch                  |
| Range                       | 100...1400 mm                     |
| Ultrasound frequency        | 230 kHz                           |
| Repeatability               | ≤ ± 1 mm                          |
| Temperature drift           | ≤ 0.13 % of full scale/K          |
| <b>Electrical data</b>      |                                   |
| Operating voltage           | 12...24 VDC                       |
| Response time typical       | < 20 ms                           |
| Output function             | NO contact, PNP/NPN               |
| Switching frequency         | ≤ 50 Hz                           |
| Hysteresis                  | ≤ 0.5 mm                          |
| Short-circuit protection    | yes / Cyclic                      |
| Reverse polarity protection | Complete                          |
| <b>Mechanical data</b>      |                                   |
| Design                      | Rectangular, Q45                  |
| Radiation direction         | straight                          |
| Dimensions                  | 60.5 x 44.5 x 102.6 mm            |
| Housing material            | Plastic, PBT                      |
| Transducer material         | Plastic, Epoxyd resin and PU foam |
| Electrical connection       | Connector, M12 × 1, PVC           |
| Ambient temperature         | -25...+70 °C                      |
| Relative humidity           | 100 %                             |

Technical data

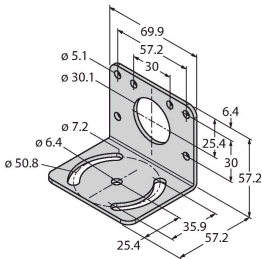
|                  |                                          |
|------------------|------------------------------------------|
| Protection class | IP67                                     |
| Tests/approvals  |                                          |
| MTTF             | 50 years acc. to SN 29500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

Accessories

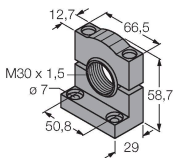
|                                                                              |         |
|------------------------------------------------------------------------------|---------|
| SMB30A                                                                       | 3032723 |
| Mounting bracket, rectangular, 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 |         |



Accessories

| Dimension drawing | Type          | ID      |                                                                                                                         |
|-------------------|---------------|---------|-------------------------------------------------------------------------------------------------------------------------|
|                   | RKC4.5T-2/TEL | 6625016 | Connection cable, M12 female connector, straight, 5-pin, cable length: 2 m, jacket material: PVC, black; cULus approval |
|                   | WKC4.5T-2/TEL | 6625028 | Connection cable, M12 female connector, angled, 5-pin, cable length: 2 m, jacket material: PVC, black; cULus approval   |