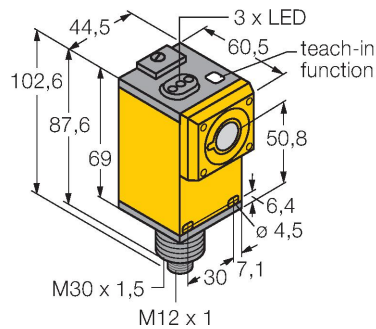


# Q45UR3LIU64CQ6K

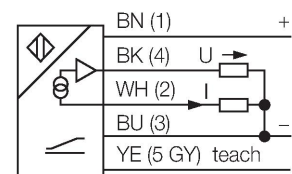
## Ultrasonic Sensor – diffuse mode sensor With Analog Output



### Features

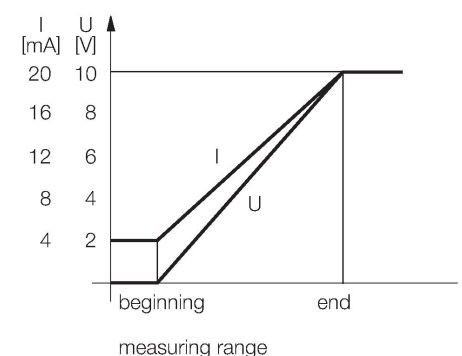
- Measuring range adjustable via teach button or control line
- Response time, adjustable
- Analog output can be used for voltage or current
- Teach-in function
- Convertible output curves
- Aperture angle of sonic cone 15 °
- Blind zone: 25 cm
- Range: 300 cm

### 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                        | Q45UR3LIU64CQ6K                   |
| ID                          | 3053744                           |
| <b>Ultrasonic data</b>      |                                   |
| Function                    | Proximity switch                  |
| Range                       | 50...250 mm                       |
| Ultrasound frequency        | 400 kHz                           |
| Repeatability               | ≤ ± 1 mm                          |
| Temperature drift           | ≤ 0.13 % of full scale/K          |
| <b>Electrical data</b>      |                                   |
| Operating voltage           | 12...24 VDC                       |
| Load resistance             | ≤ 500 Ω                           |
| Response time typical       | < 10 ms                           |
| Output function             | Analog output                     |
| Current output              | 4...20 mA                         |
| Voltage output              | 0...10 V                          |
| 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, Thermoplastic polyester  |
| Transducer material         | Plastic, Epoxyd resin and PU foam |
| Electrical connection       | Connector, M12 × 1, PVC           |
| Ambient temperature         | -25...+70 °C                      |

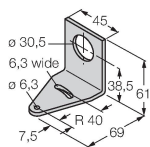
Technical data

|                   |                                          |
|-------------------|------------------------------------------|
| Relative humidity | 85 %                                     |
| Protection class  | IP67                                     |
| Object detected   | LED, Yellow                              |
| Tests/approvals   |                                          |
| MTTF              | 50 years acc. to SN 29500 (Ed. 99) 40 °C |
| Approvals         | CE                                       |

Accessories

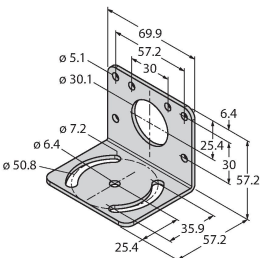
|        |         |
|--------|---------|
| SMB30A | 3032723 |
|--------|---------|

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



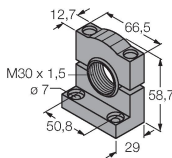
|         |         |
|---------|---------|
| SMB30MM | 3027162 |
|---------|---------|

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   |

## Accessories

| Dimension drawing | Type    | ID      |
|-------------------|---------|---------|
|                   | M18C2.0 | 3053022 |
|                   | Q13C2.0 | 3059424 |
|                   | S18C2.0 | 3056827 |