

# Q45UR3LIU64CQKS

## Ultrasonic Sensor – diffuse mode sensor With Analog Output

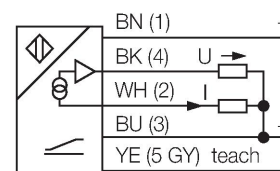
### Technical data

|                         |                                  |
|-------------------------|----------------------------------|
| Type                    | Q45UR3LIU64CQKS                  |
| ID                      | 3059435                          |
| <b>Ultrasonic data</b>  |                                  |
| Function                | Proximity switch                 |
| Range                   | 50...250 mm                      |
| Ultrasound frequency    | 400 kHz                          |
| Repeatability           | $\leq \pm 1$ mm                  |
| <b>Electrical data</b>  |                                  |
| Operating voltage $U_B$ | 12...24 VDC                      |
| Load resistance         | $\leq 500 \Omega$                |
| Response time typical   | < 10 ms                          |
| Output function         | Analog output                    |
| Current output          | 4...20 mA                        |
| Voltage output          | 0...10 V                         |
| <b>Mechanical data</b>  |                                  |
| Design                  | Rectangular, Q45                 |
| Radiation direction     | straight                         |
| Dimensions              | 60.5 x 44.5 x 101.6 mm           |
| Housing material        | Plastic, Thermoplastic polyester |
| Electrical connection   | Connector, 7/8", PVC             |
| Ambient temperature     | -25...+70 °C                     |
| Relative humidity       | 85 %                             |
| Protection class        | IP67                             |
| Object detected         | LED, Yellow                      |
| <b>Tests/approvals</b>  |                                  |
| Approvals               | CE                               |

### Features

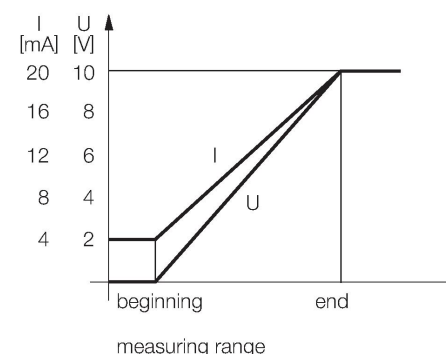
- Measuring range adjustable via teach button or control line
- Response time, adjustable
- Analog output can be used for voltage or current
- Teach-in function
- Convertible output curves
- Blind zone: 5 cm
- Range: 25 cm

### Wiring diagram

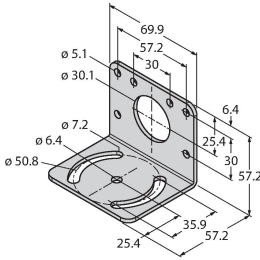
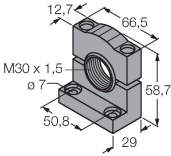


### Functional principle

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.



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      |
|-------------------|---------|---------|
|                   | M18C2.0 | 3053022 |
|                   | Q13C2.0 | 3059424 |
|                   | S18C2.0 | 3056827 |