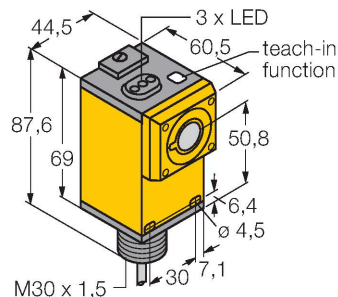


# Q45ULIU64ACR

## Ultrasonic Sensor – diffuse mode sensor

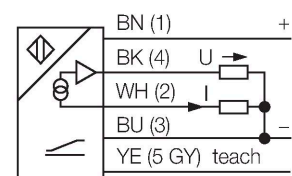
### With Analog Output



### Features

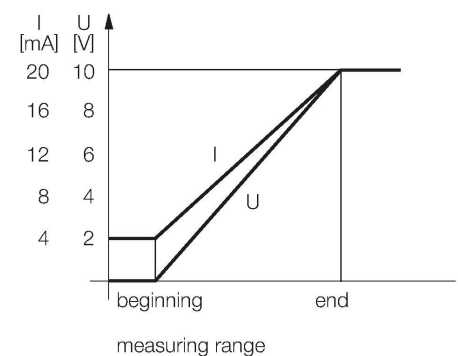
- Measuring range adjustable via teach button or control line
- Response time, adjustable
- Analog output can be used for voltage or current
- Teach-in function
- Convertible output curves
- Aperture angle of sonic cone 15 °
- Blind zone: 10 cm
- Range: 140 cm

### 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	Q45ULIU64ACR
ID	3047551
<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
Load resistance	≤ 500 Ω
Response time typical	< 40 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 87.6 mm
Housing material	Plastic, PBT
Transducer material	Plastic, Epoxyd resin and PU foam
Electrical connection	Cable, 2 m, PVC
Ambient temperature	-25...+70 °C

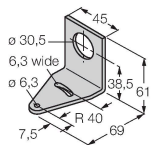
## Technical data

Relative humidity	100 %
Protection class	IP67
Object detected	LED, Yellow
<b>Tests/approvals</b>	
MTTF	50 years acc. to SN 29500 (Ed. 99) 40 °C
Approvals	CE

## Accessories

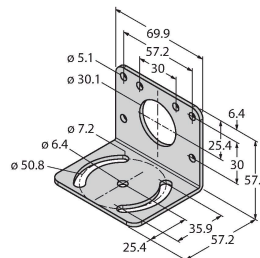
### SMB30A 3032723

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

