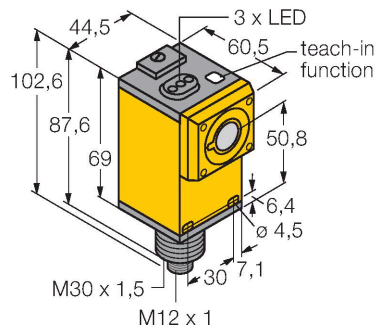


# Q45UR3LIU64CQ6K

## Ultrasonic Sensor – diffuse mode sensor

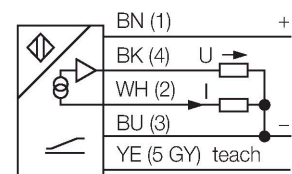
### With Analog Output



## Features

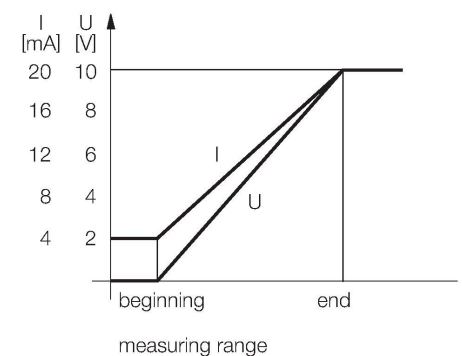
- Measuring range adjustable via teach button or control line
- Response time, adjustable
- Analog output can be used for voltage or current
- Teach-in function
- Convertible output curves
- Aperture angle of sonic cone 15 °
- Blind zone: 25 cm
- Range: 300 cm

## 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.



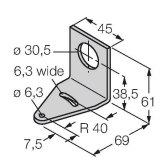
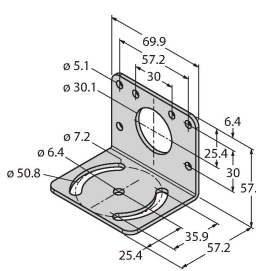
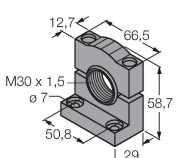
## Technical data

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

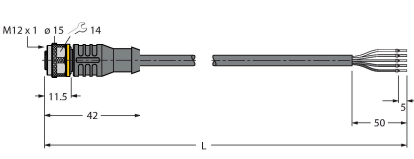
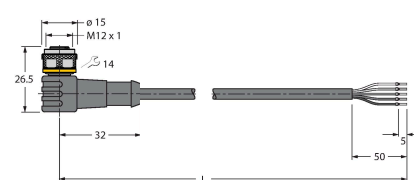
## Technical data

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

## Accessories

<b>SMB30A</b>	<b>3032723</b>	Mounting bracket, rectangular, stainless steel, for sensors with 30mm thread	<b>SMB30MM</b>	<b>3027162</b>	Mounting bracket, rectangular, stainless steel, for sensors with 30 mm thread, wide holes for accurate alignment
					
<b>SMB30SC</b>	<b>3052521</b>	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