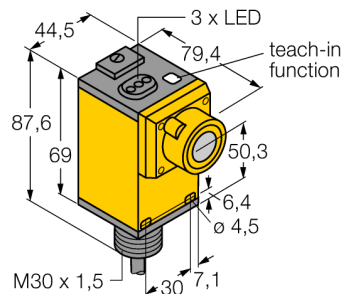


ultrasonic sensor
diffuse mode sensor
Q45ULIU64BCR

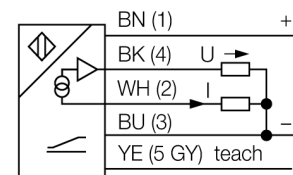
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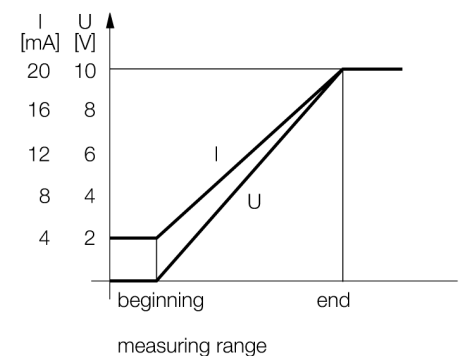
- measuring range adjustable via teach button or control line
- adjustable response time
- analogue output can be used for voltage or current
- teach-in function
- convertible output curves
- opening angle of sonic cone 12°

Wiring diagram



Functional principle

Ultrasonic sensors use ultrasonic waves for non-contact and wear-free detection of many objects. Regardless of whether the object is transparent or opaque, metallic or non-metallic, or of liquid, solid or powdery consistency. Even environmental conditions such as spray, dust or rain hardly affect their function.



Type code Q45ULIU64BCR
Ident no. 3047555

Design rectangular, Q45
Housing material Plastic, PBT
Connection cable, 2
Protection class IP67
Ambient temperature -25...+70 °C

Operating voltage 12...24VDC
Load resistance ≤ 500 Ω
Current output 4...20mA
Voltage output 0...10V
Short-circuit protection yes/ cyclic
Reverse polarity protection complete

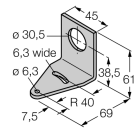
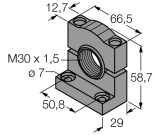
Range 25...300 cm
Ultrasound frequency 120 kHz
Repeatability ≥ ± 1 mm

ultrasonic sensor
diffuse mode sensor
Q45ULIU64BCR

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Accessories

Type code	Ident no.	Description	Dimension drawing
SMB30A	3032723	Mounting bracket, stainless steel, for sensors with 30 mm thread	 Technical drawing of the SMB30A mounting bracket. It is a stainless steel bracket for sensors with a 30 mm thread. Dimensions shown: top width 45, top hole diameter $\varnothing 30,5$, top hole width 6,3, bottom hole diameter $\varnothing 6,3$, bottom hole width 7,5, bottom hole radius R 40, bottom hole depth 69, and bottom hole offset 61.
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 30 mm thread; with 4 screws M5 x 0.8	 Technical drawing of the SMB30SC mounting bracket. It is a PBT black bracket for sensors with a 30 mm thread, featuring 4 screws M5 x 0.8. Dimensions shown: top width 12,7, top hole diameter $\varnothing 7$, top hole offset 50,8, top hole depth 58,7, top hole radius R 29, and top hole width 66,5.