

Q45UR3LIU64CQK

Ultrasonic Sensor – diffuse mode sensor

With Analog Output

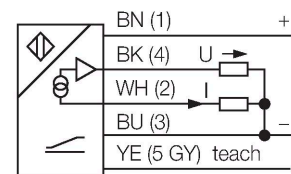
Technical data

Type	Q45UR3LIU64CQK
ID	3053743
Ultrasonic data	
Function	Proximity switch
Range	50...250 mm
Ultrasound frequency	400 kHz
Repeatability	$\leq \pm 1$ mm
Electrical data	
Operating voltage	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
Mechanical data	
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
Tests/approvals	
Approvals	CE

Features

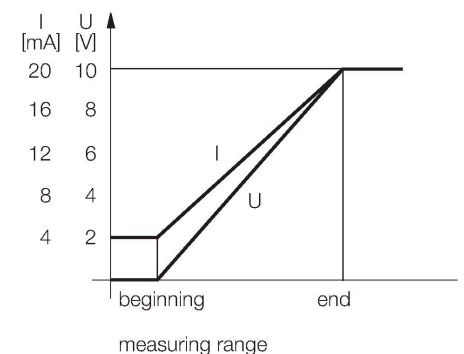
- Measuring range adjustable via teach button or control line
- Response time, adjustable
- Analog output can be used for voltage or current
- Teach-in function
- Convertible output curves
- Blind zone: 5 cm
- Range: 25 cm

Wiring diagram



Functional principle

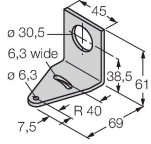
Ultrasonic sensors detect a multitude of objects contactless and wear-free with ultrasonic waves. Regardless of whether the object is transparent or opaque, metallic or non-metallic, liquid, solid or powdery. Even environmental conditions such as spray, dust or rain hardly affect their function.



Accessories

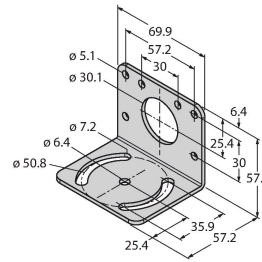
SMB30A 3032723

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



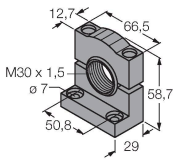
SMB30MM 3027162

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