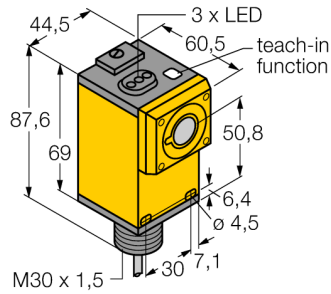
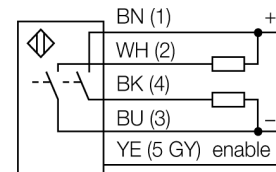


**ultrasonic sensor
diffuse mode sensor
Q45UBB63DA**



- Start and End of switching range adjustable via teach button
- NO/NC output function
- Response time, adjustable
- Pump function
- PNP/NPN transistor output (NO contact)
- Aperture angle of sonic cone 15 °

Wiring diagram



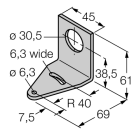
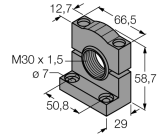
Functional principle

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.

Type code	Q45UBB63DA
Ident no.	3044128
Design	rectangular, Q45
Housing material	plastic, PBT
Connection	cable, 2
Protection class	IP67
Ambient temperature	-25...+70 °C
MTTF	50 years
MTTF note	acc. to SN 29500 (Ed. 99) 40 °C
Operating voltage	12...24VDC
Output function	NO contact, PNP/NPN
Switching frequency	50 Hz
Hysteresis	≤ 0.5 mm
Short-circuit protection	yes/ cyclic
Reverse polarity protection	complete
Operating mode	diffuse mode ultrasonic sensor
Range	10...140 cm
Ultrasound frequency	230 kHz
Repeatability	≥ ± 0.25 mm

ultrasonic sensor
diffuse mode sensor
Q45UBB63DA

Accessories

Type code	Ident no.	Description	Dimension drawing
SMB30A	3032723	Mounting bracket, stainless steel, for sensors with 30 mm thread	 <p>Technical drawing of the SMB30A mounting bracket. Dimensions include: top width 45, hole diameter $\varnothing 30,5$, hole offset 6,3 wide, hole diameter $\varnothing 6,3$, hole depth 38,5, hole offset 61, bottom width 69, and a radius of R 40.</p>
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	 <p>Technical drawing of the SMB30SC mounting bracket. Dimensions include: top width 66,5, hole diameter $\varnothing 7$, hole offset 12,7, hole depth 56,7, bottom width 50,8, and a radius of R 29.</p>