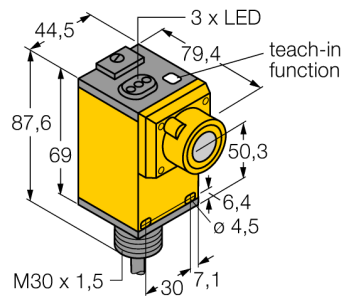


ultrasonic sensor
diffuse mode sensor
Q45UBB63BC

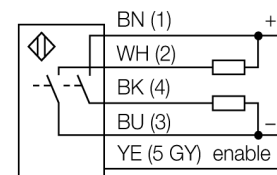
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Industrial
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- lower and upper switching range limit adjustable via teach button
- normally open or normally closed output functions
- adjustable response time
- pump function
- pnp transistor output (normally open)
- 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.

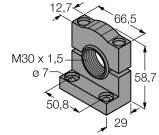
Type code	Q45UBB63BC
Ident no.	3046360
Design	rectangular, Q45
Housing material	Plastic, PBT
Connection	cable, 2
Protection class	IP67
Ambient temperature	-25...+70 °C
Operating voltage	12...24VDC
Output function	NO contact, PNP/NPN
Switching frequency	50 Hz
Hysteresis	≤ 1 mm
Short-circuit protection	yes/ cyclic
Reverse polarity protection	complete
Range	25...300 cm
Ultrasound frequency	120 kHz
Repeatability	≥ ± 0.5 mm

ultrasonic sensor
diffuse mode sensor
Q45UBB63BC

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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 38,5.
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 66,5, top hole depth 58,7, top hole width 50,8, and top hole radius 29.