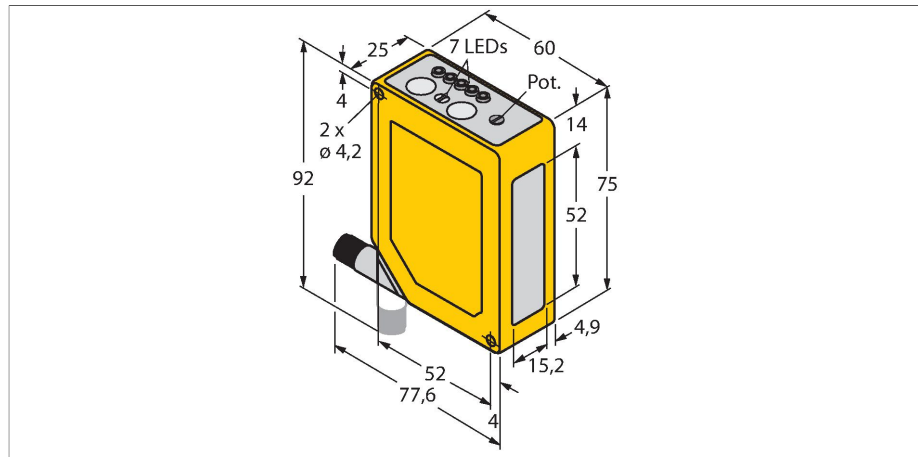


BSO1L1.4M-Q60-ANP6X5-H1151

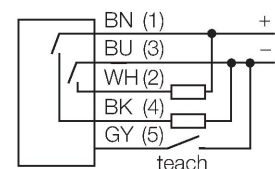
Photoelectric Sensor – Diffuse Mode Laser Sensor with Adjustable Background Suppression



Features

- Male, M12 x 1, 5-pin, rotatable by 90°
- Protection class IP67
- 5-segment LED display
- Signal indication
- Keylock
- Switch ON/OFF delay, adjustable between 8...16 ms
- Operating voltage: 10...30 VDC
- Switching output, bipolar
- Light or dark operation

Wiring diagram



Technical data

Type	BSO1L1.4M-Q60-ANP6X5-H1151
ID	7700491
Function	Laser-Reflexionslichttaster (Triangulation)
Light type	Red
Wavelength	650 nm
Laser class	▲ 1
Range	200...1400 mm
Operating voltage	10...30 VDC
Residual ripple	< 10 % U _{ss}
No-load current	≤ 50 mA
Reverse polarity protection	yes
Output function	NO contact, PNP/NPN
Switching frequency	≤ 250 Hz
Design	Rectangular, Q60
Dimensions	60 x 25 x 75 mm
Housing material	Plastic, ABS, Yellow
Lens	plastic, Acryl
Electrical connection	Connector, M12 × 1
Ambient temperature	-10...+45 °C
Protection class	IP67
Special features	Laser
Power-on indication	LED, Green
Switching state	LED, Yellow
Error indication	LED
Excess gain indication	LED, green, flashing

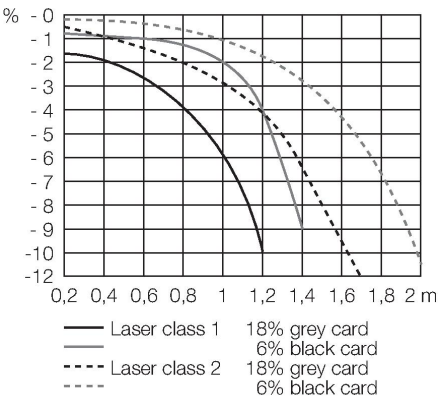
Functional principle

Diffuse mode sensors with background suppression operate with a single emitter and several receiver elements. The target's position and the optical structure of the sensor determine which receiver element gets the most light. The sensor electronics then determines whether the reflecting target is in or outside the measuring range. The sensors are available with adjustable or fixed cut-off point.

Deviation curve
Deviation of the cut-off point of an 18 % grey or 6 % black target relative to the cut-off point of a white target

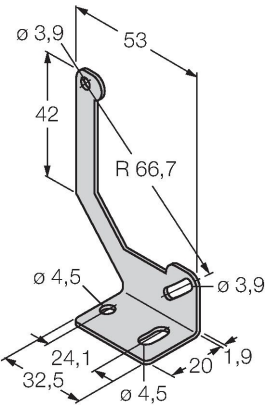
Technical data

MTTF	19 years acc. to SN 29500 (Ed. 99) 40 °C
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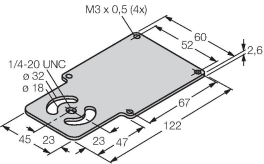


Accessories

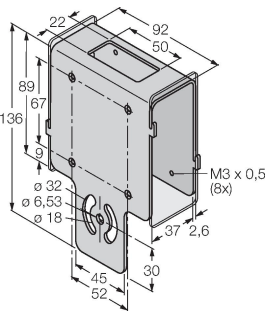
TMBQ60	7700419
Mounting bracket, stainless steel, for Q60 series	



TMBMSQ60	7700418
Backplane, stainless steel, for Q60 series	

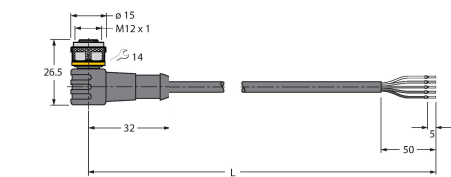


TMBMSQ60E	7700417
Protective housing with safety glass, stainless steel, for Q60	



Accessories

Dimension drawing	Type	ID
	WKC4.5T-2/TEL	6625028



Connection cable, female M12, angled, 5-pin, cable length: 2 m, sheath material: PVC, black; cULus approval; other cable lengths and qualities available, see www.turck.com

Dimension drawing	Type	ID	
	RKC4.5T-2/TEL	6625016	Connection cable, female M12, straight, 5-pin, cable length: 2 m, sheath material: PVC, black; cULus approval; other cable lengths and qualities available, see www.turck.com

