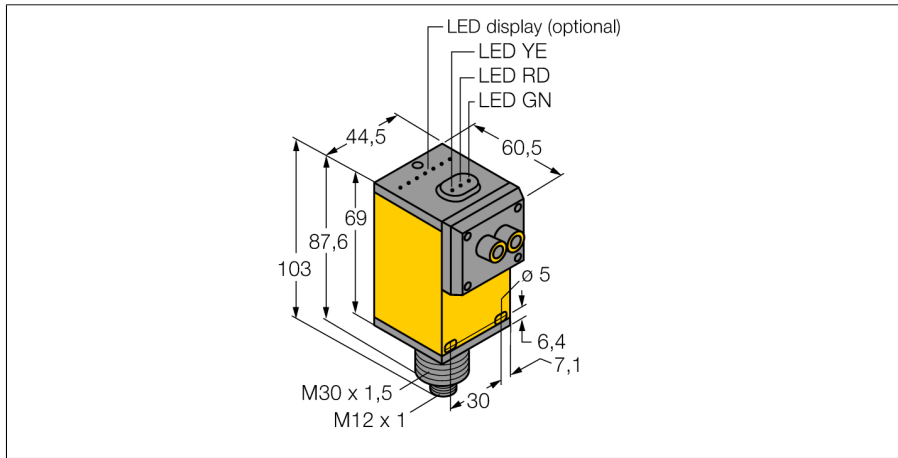
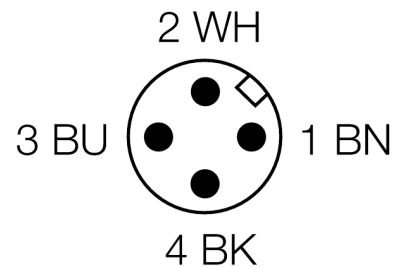
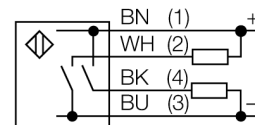


photoelectric sensor
Base unit for optical fibers
Q45BB6FPQ5



- Male M12 x 1
- Protection class IP67
- Male connector, *eurofast*
- Operating voltage: 10...30 VDC
- Switching output, bipolar
- Light or dark operation, adjusted via switch

Wiring diagram



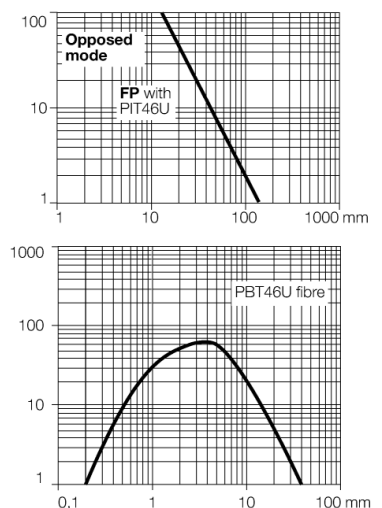
Type code	Q45BB6FPQ5
Ident no.	3038668
Operating mode	fibre optic sensor
Light type	red
Wavelength	660 nm
Ambient temperature	-40...+70 °C
Operating voltage	10...30VDC
Residual ripple	< 10 % U _s
No-load current I ₀	≤ 50 mA
Short-circuit protection	yes
Reverse polarity protection	yes
Output function	NO contact, PNP/NPN
Switching frequency	≤ 250 Hz
Readiness delay	≤ 100 ms
Overcurrent release	> 220 mA
Design	rectangular, Q45
Dimensions	60.5 x 44.5 x 102.6 mm
Housing material	plastic, PBT
Lens	plastic, acrylic
Connection	male, M12 x 1
Protection class	IP67
MTTF	67 years acc. to SN 29500 (Ed. 99) 40 °C
Power-on indication	LED green
Switching state	LED yellow
Error indication	LED green flashing
Excess gain indication	LED red

Functional principle

Glass or fibre optic sensors are the optimum choice for high temperature or space restricted applications. Fibre optics transfer the light from the sensor to a remote object. Individual fibre optics are used for opposed mode sensing, whereas bifurcated fibre optics are suited for retro-reflective or diffuse mode operation.

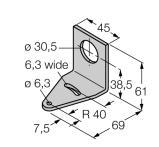
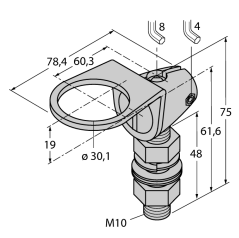
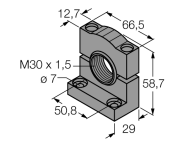
Excess gain curve

Excess gain in relation to the distance

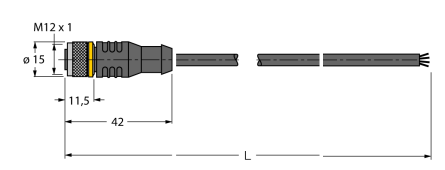
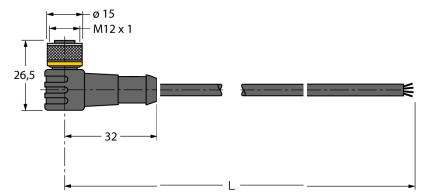


photoelectric sensor
Base unit for optical fibers
Q45BB6FPQ5

Accessories

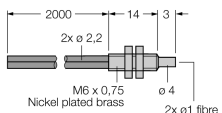
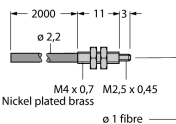
Type code	Ident no.	Description	Dimension drawing
SMB30A	3032723	Mounting bracket, stainless steel, for sensors with 30 mm thread	
SMB30FAM10	3011185	Mounting bracket, stainless steel, for M10 x 1.5 thread, thread length 30 mm	
SMB30SC	3052521	Mounting bracket, PBT black; for 30 mm thread; with 4 screws M5 x 0.8	

Wiring accessories

Type code	Ident no.	Description	Dimension drawing
RKC4.4T-2/TEL	6625013	Connection cable, female M12, straight, 4-pin, cable length: 2 m, sheath material: PVC, black; cULus approval; other cable lengths and qualities available, see www.turck.com	
WKC4.4T-2/TEL	6625025	Connection cable, female M12, angled, 4-pin, cable length: 2 m, sheath material: PVC, black; cULus approval; other cable lengths and qualities available, see www.turck.com	

photoelectric sensor
 Base unit for optical fibers
 Q45BB6FPQ5

Function accessories

Type code	Ident no.	Description	Dimension drawing
PBT46U	3025967	plastic fibre-optic sensor, sensing mode: diffuse mode sensor, polyethylene cable; for ambient temperatures of -30 °C...+70 °C	 <p>2000 14 3 2x ø 2,2 M6 x 0,75 Nickel plated brass ø 4 2x ø1 fibre</p>
PIT46U	3026034	plastic fibre-optic sensor, sensing mode: light screen, polyethylene cable; for ambient temperatures of -30 °C...+70 °C	 <p>2000 11 3 ø 2,2 M4 x 0,7 M2,5 x 0,45 Nickel plated brass ø 1 fibre</p>