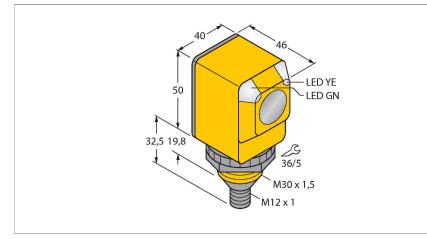


Q40S2P6RQ Photoelectric Sensor – Opposed Mode Sensor (Receiver)



Technical data

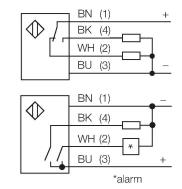
Туре	Q40S2P6RQ		
ID no.	3045169		
Optical data			
Function	Opposed mode sensor		
Operating mode	Receiver		
Range	060000 mm		
Electrical data			
Operating voltage	1030 VDC		
No-load current	≤ 25 mA		
Short-circuit protection	yes / Cyclic		
Reverse polarity protection	yes		
Output function	Connection programmable, PNP		
Switching frequency	≤ 160 Hz		
Readiness delay	≤ 100 ms		
Response time typical	< 3 ms		
Overcurrent release	> 220 mA		
Mechanical data			
Design	Rectangular, Q40		
Dimensions	Ø 30 x 46 x 40.1 x 82.5 mm		
Housing material	Plastic, Thermoplastic material		
Lens	plastic, Polycarbonate		
Electrical connection	Connectors, M12 × 1, PVC		
Number of cores	4		
Ambient temperature	-40+70 °C		
Protection class	IP67 IP69		
Special features	Encapsulated Wash down		

Features

M12 × 1 male connector, 4-pin

- Protection classes IP67/IP69K
- Ambient temperature: -40 °C...+70 °C
- Selectable light/dark operation or light oper-
- ation with alarm function
- Operating voltage: 10...30 VDC
- PNP switching output, changeover

Wiring diagram



Functional principle

Opposed mode sensors consist of an emitter and receiver. They are installed opposite each other so that the light from the emitter is aimed directly at the receiver. When an object interrupts or weakens the light beam, the sensor switches. Opposed mode sensors are the most reliable photoelectric sensors for detection of opaque targets. An excellent contrast between light and dark conditions and an extremly high excess gain are typical of this sensing mode, thus allowing operation over larger distances and under difficult conditions. Excess gain curve

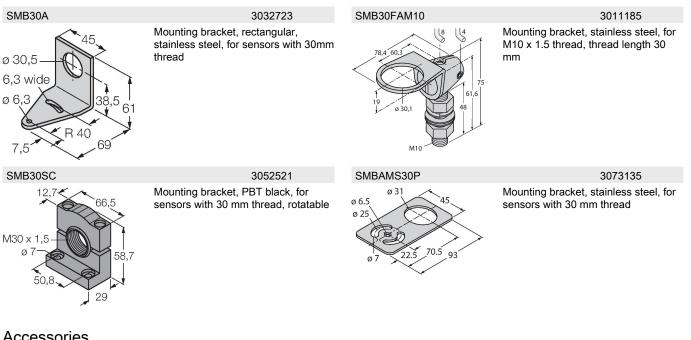
Excess gain in relation to the distance



Technical data

Power-on indication	LED, Green	
Switching state	LED, Yellow	
Error indication	LED, green, Flashing	
Excess gain indication	LED	
Alarm display	LED yellow Flashing	
Tests/approvals		
Approvals	CE, UL, CSA	

Accessories



Accessories

Dimension drawing	Туре	ID no.	
M12x1 p 15 5 14	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
0 15 + M12 x 1 26.5 - 32 - 50 -	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