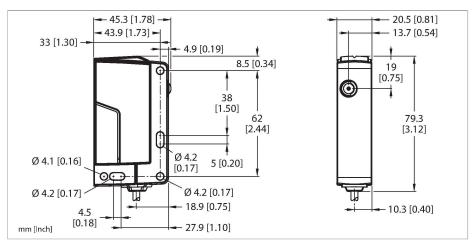


Q76E-VP-ZLVC-Q5 Photoelectric Sensor – Retroreflective Light Barrier With Wide Light Beam





Technical data

Number of cores

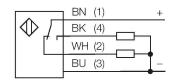
Туре	Q76E-VP-ZLVC-Q5	
ID	3808852	
Optical data		
Function	Retroreflective Sensor	
Reflector included in delivery	no	
Light type	Red	
Wavelength	620 nm	
Optical resolution	19 mm	
Range	4004000 mm	
Electrical data		
Operating voltage	1030 VDC	
Residual ripple	< 15 % U _{ss}	
Reverse polarity protection	yes	
Output function	Complementary contact, PNP	
Switching frequency	≤ 250 Hz	
Readiness delay	≤ 300 ms	
Response time typical	< 2 ms	
Setting option	Push Button	
Mechanical data		
Design	Rectangular, Q76	
Dimensions	45.3 x 20.5 x 79.3 mm	
Housing material	Plastic, PC PBT	
Lens	plastic, PMMA	
Electrical connection	Cable with connector, M12 × 1, 0.2 m	

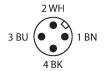
4

Features

- Protection class IP67/IP69
- ■200-mm PVC cable with M12 × 1 male, 4-pin
- Range up to 4 m with reflector BRT-92X92CB
- ■Extra-wide light beam
- Operating voltage: 10...30 VDC
- Switching output, complementary contact, PNP
- ECOLAB-certified

Wiring diagram





Functional principle

Retroreflective sensors have emitter and receiver incorporated in the same housing. The light beam of the emitter is directed towards a reflector which returns the light back to the receiver. A target is captured when it interrupts this beam. Retroreflective sensors feature some of the advantages of opposed mode sensors, such as good contrast and high excess gain. Furthermore, only one device has to be installed and wired.

Technical data

Ambient temperature	-40+60 °C		
Storage temperature	-40+70 °C		
Protection class	IP67 IP69		
Power-on indication	LED, Green		
Switching state	LED, Yellow		
Tests/approvals			
Approvals	ECOLAB		
Approvals	CE cULus		

Devices without polarizing filter have a smaller sensing range and are more susceptible to disturbances caused by shiny objects. The Q76 product series is characterized by an extra-wide beam of light, which enables the edges of objects that are not standard shapes to be reliably detected. Various sensitivity settings facilitate operation in the area of material handling.

Accessories

Dimension drawing	Туре	ID	
M12x1 015 \$\infty\$ 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	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