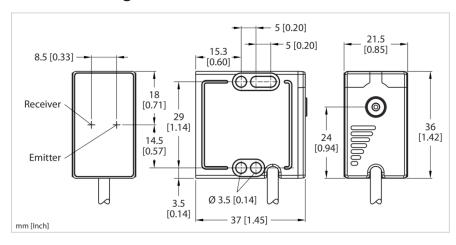
# Your Global Automation Partner

#### B25-K6LP-Q5

## Photoelectric sensor Retroreflective Sensor With Wide Light Beam





Тур	B25-K6LP-Q5
Ident-No.	3816999

#### **Technical data**

Detection area/measuring range	
Minimum target size	3 mm
Range	02000 mm
Optical data	
Light type	Red
Wavelength	630 nm
Power supply	
Operating voltage U <sub>B</sub>	1030 VDC
Electrical data	
Output function	1 × PNP
Wire break/reverse polarity protection	yes
Power	≤1.2 W
Response time typical	<0.5 ms
Switching frequency	≤1000 Hz
Interfaces	
Communication protocol	IO-Link
Outputs	

#### **Features**

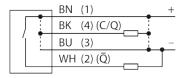
- Protection class IP67/IP69
- 200-mm PVC cable with M12 × 1 male, 4-pin
- Range up to 2 m with reflector BRT-92X92CB
- · Extra-wide light beam
- Operating voltage: 10...30 VDC
- 1 × switching output, PNP/NPN IO-Link
- 1 × switching output, dark operation PNP

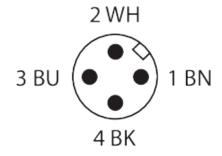


#### **Technical data**

output
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21.5 mm x 37 mm
connector, M12 × 1
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### **Wiring Diagram**





## **Functional principle**

Retroreflective sensors have an emitter and a receiver incorporated in the same housing. The light beam of the emitter is directed at a reflector which returns the light back to the receiver. An object is detected when it interrupts this light 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. However, the range is smaller and devices without a polarizing filter are more susceptible to disturbances caused by shiny objects.

The B25 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.