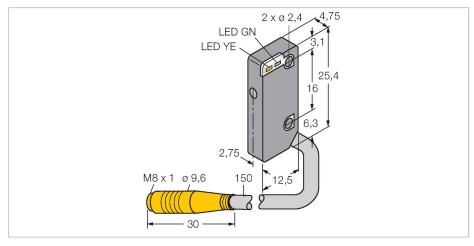
VS4RP5RQ Photoelectric Sensor – Opposed Mode Sensor (Emitter/ Receiver) Miniature Sensor



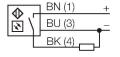
Technical data

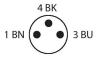
Туре	VS4RP5RQ
ID	3069431
Optical data	
Function	Opposed mode sensor
Operating mode	Receiver
Range	01000 mm
Electrical data	
Operating voltage	1030 VDC
Residual ripple	< 10 % U _{ss}
DC rated operational current	≤ 50 mA
No-load current	≤ 25 mA
Short-circuit protection	yes
Reverse polarity protection	yes
Output function	NO contact, dark operation, PNP
Switching frequency	≤ 660 Hz
Readiness delay	≤ 100 ms
Response time typical	< 1 ms
Mechanical data	
Design	Rectangular, VS4
Dimensions	12.5 x 4.75 x 25.4 mm
Housing material	Plastic, Thermoplastic material
Lens	plastic, Polycarbonate
Electrical connection	Cable with connector, M8 × 1, 0.15 m, PVC
Number of cores	3

Features

- Cable with male end, PVC, M8 × 1, 3-pin, 150 mm
- ■Protection class IP67
- Operating voltage: 10...30 VDC
- ■Flat design
- ■PNP switching output, dark operation

Wiring diagram

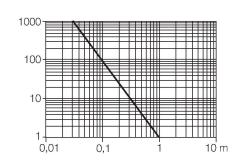




Functional principle

Opposed mode sensors consist of an emitter and a receiver. They are installed opposite to each other whereby the emitted light aims 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 objects. The excellent light/dark contrast and the very high excess gain are typical for this function mode and enable operation over large distances and under difficult conditions.

Excess gain curve Excess gain in relation to distance





Technical data

Ambient temperature	-20+55 °C
Protection class	IP67
Power-on indication	LED, Green
Switching state	LED, Green
Error indication	LED, green, Flashing
Excess gain indication	LED
Alarm display	LED yellow Flashing
Tests/approvals	
Approvals	CE

Accessories

SMBVS4SRA	3069435

Montagewinkel, 300 Edelstahl, rechtwinklig, für Sensoren der Baureihe VS4

Accessories

