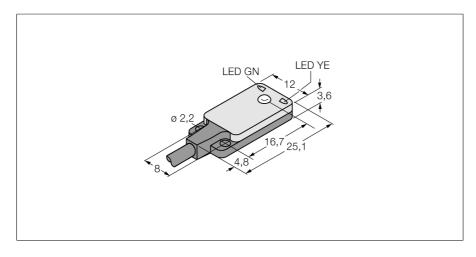


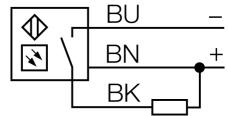
Photoelectric Sensor Opposed Mode Sensor (Emitter/Receiver) Miniature Sensor VS2KAN5Q



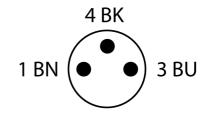
VS2KAN5Q

- Cable with male end, M8 × 1, 3-pin, PVC, 150 mm
- Operating voltage: 10...30 VDC
- Ultra flat design
- NPN switching output, light operation

Wiring Diagram



туре	VS2KAN5Q	
ID	3070669	
Optical data		
Function	Opposed mode sensor	
Operating mode	Emitter/receiver pair	
Light type	Red	
Wavelength	940 nm	
Range	03000 mm	
Electrical data		
Operating voltage U _B	1030 VDC	
Residual ripple	< 10 % U _{ss}	
DC rated operating current I₅	≤ 50 mA	
Short-circuit protection	yes	
Reverse polarity protection	yes	
Output function	NO contact, NPN	
Switching frequency	≤ 500 Hz	
Readiness delay	≤ 100 ms	
Response time typical	< 1 ms	
Mechanical data		
Design	Rectangular, VS2	
Housing material	Plastic, Thermoplastic material	
Lens	plastic, MABS	
Electrical connection	Cable with connector, M8 × 1, 0.15 m, PVC	
Number of cores	3	
Ambient temperature	-20+55 °C	
Protection class	IP67	
Power-on indication	LED, Green	
Switching state	LED, Yellow	
Error indication	LED, green, Flashing	
Excess gain indication	LED	
Alarm display	LED yellow Flashing	



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.

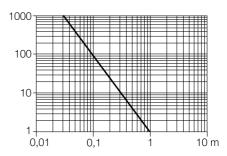
Excess gain curve

Excess gain in relation to the distance

Type



Tests/approvals
Approvals
CE





Accessories

Type code	Ident no.		Dimension drawing
SMBVS2RA	3058603	mounting bracket, straight	