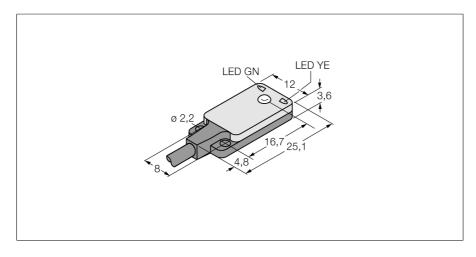


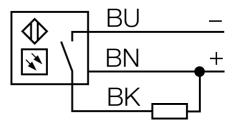
Photoelectric Sensor Opposed Mode Sensor (Receiver) Miniature Sensor VS2AN5RQ5



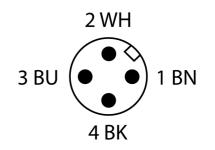
Cable with male end,	M12 × 1,	4-pin, P	VC,
150 mm			

- Operating voltage: 10...30 VDC
- Ultra flat design
- NPN switching output, light operation

Wiring Diagram



Туре	VS2AN5RQ5
ID	3070684
Optical data	
Function	Opposed mode sensor
Operating mode	Receiver
Wavelength	940 nm
Range	03000 mm
Electrical data	
Operating voltage U _B	1030 VDC
Residual ripple	< 10 % U _{ss}
DC rated operating current I _e	≤ 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, ABS
Lens	plastic, MABS
Electrical connection	Cable with connector, M12 × 1, 0.15 m, PVC
Number of cores	4
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
1 - 7	,



Functional principle

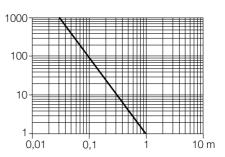
Opposed mode sensors consist of an emitter and receiver. They are installed opposite each other so that the light from the emitter is aimed directly at the receiver. When an object interrupts or weakens the light beam, the sensor switches. Opposed mode sensors are the most reliable photoelectric sensors 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



Tests/approvals
Approvals
CE





Accessories

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