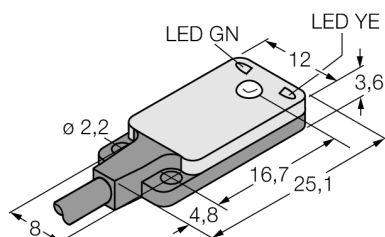


Photoelectric Sensor

Opposed Mode Sensor (Emitter)

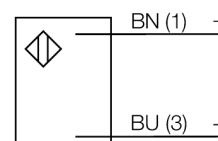
Miniature Sensor

VS25EV W/30



- Cable, 2 m, 3-wire
- Operating voltage: 10...30 VDC
- Ultra flat design

Wiring Diagram

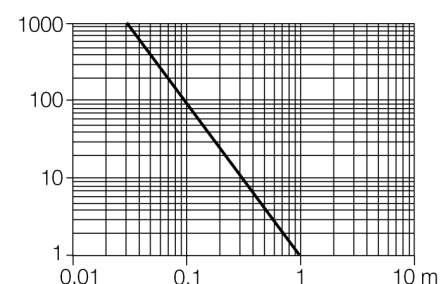


Functional principle

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 extremely 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	VS25EV W/30
ID	3063157
Optical data	
Function	Opposed mode sensor
Operating mode	Emitter
Light type	Red
Wavelength	660 nm
Range	0...1200 mm
Electrical data	
Operating voltage U_s	10...30 VDC
Residual ripple	< 10 % U_s
DC rated operating current I_s	≤ 50 mA
No-load current I_0	≤ 25 mA
Short-circuit protection	yes
Reverse polarity protection	yes
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, 9 m, PVC
Number of cores	2
Core cross-section	0.34 mm ²
Ambient temperature	-20...+55 °C
Protection class	IP67
Power-on indication	
Power-on indication	LED, Green
Excess gain indication	LED
Tests/approvals	
Approvals	CE

Accessories

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