

**Photoelectric sensor
opposed mode sensor (emitter)
miniature sensor
VS25EV**

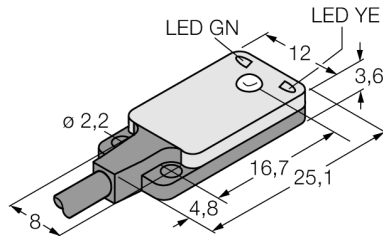
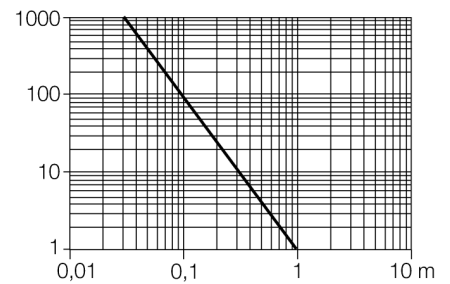
- Cable, 2 m, 3-wire
- Operating voltage: 10...30 VDC
- Ultraflat design

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 code	VS25EV
Ident no.	3055401
Operating mode	opposed mode sensor (emitter)
Light type	red
Wavelength	660 nm
Range	0...1200 mm
Ambient temperature	-20...+55 °C
No-load current I_s	≤ 25 mA
Reverse polarity protection	yes
Readiness delay	≤ 100 ms
Design	rectangular, VS2
Dimensions	4.7 x 12 x 25.1 mm
Housing material	plastic, ABS
Lens	plastic, MABS
Connection	cable, PVC
Cable length	2 m
Cable cross section	3 x 0.34 mm ²
Protection class	IP67
Power-on indication	LED green