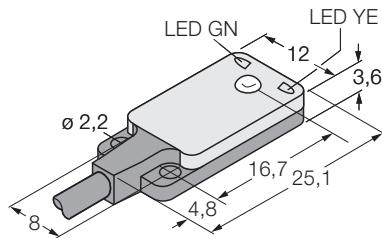


Photoelectric sensor

opposed mode sensor (emitter/receiver)

VS2KRN5V

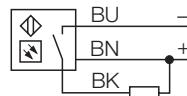


Type	VS2KRN5V
Ident-No.	3058221
Operating mode	Opposed mode (Emitter/Receiver)
Type of light	red
Wave length	660 nm
Max. sensing range [m]	0... 1,2 m
Operating temperature	-20 ...+ 55 °C
Rated operational voltage (DC) U_B	10... 30 VDC
Rated operational current (DC) I_e	≤ 50 mA
No-load current I_0	≤ 25 mA
Short-circuit protection	yes, cyclic
Reverse polarity protection	yes
Output function	normally open, NPN
Switching frequency	≤ 500 Hz
Max. switch-on delay	≤ 100 ms
Housing style	rectangular; VS2 3,6 x 12 x 25,1 mm plastic, ABS
Dimensions	3,6 x 12 x 25,1 mm
Housing material	plastic, ABS
Lens	Kunststoff, MABS
Wiring	cable
Cable length	2 m
Cable cross section	3 x 0,34 mm ²
Degree of protection	IP67
Supply voltage indication	LED green LED yellow
Switching status indication	LED green blinkend
Error indication	LED yellow blinkend
Alarm indication	

- cable, 2 m

- dark operate

Wiring diagram



Opposed mode sensors consist of a separate emitter and receiver. These are installed directly 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

