

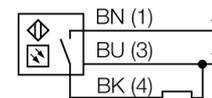
photoelectric sensor
convergent mode sensor
VS2RP5CV30

TURCK

Industrial
Automation

- 2 m cable, 3-pole
- supply voltage 10...30 VDC
- dark operation

Wiring diagram

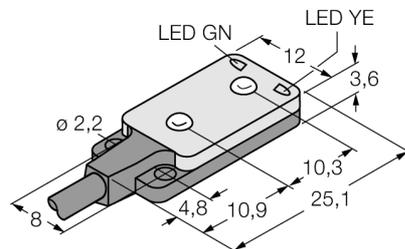
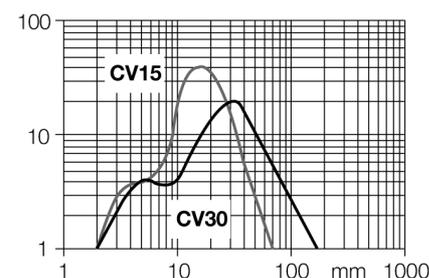


Functional principle

Convergent mode sensors are equipped with a lens in front of the emitter diode that produces a small and intense focal point at a defined distance from the sensor. Similar to diffuse mode sensors, the light reflected by the target is evaluated. Convergent mode sensors are ideal for detection of small targets or colour marks and edge guiding or positioning control of transparent materials. The targets must always be within the focal depth of the sensors. The focal depth is defined as the area in front of or behind the focal point within which the object can be detected. Based on the intense light concentration in the focal point, convergent mode sensors are capable of detecting targets with a low reflectivity.

Excess gain curve

Excess gain in relation to the distance



Type	VS2RP5CV30
Ident-No.	3061751
Operating mode	convergent mode sensor
Light type	red
Wavelength	660 nm
Focal distance	30 mm
Ambient temperature	-20...+55 °C
Operating voltage	10...30VDC
DC rated operational current	≤ 50 mA
Output function	NO, dark operation, PNP
Switching frequency	≤ 500 Hz
Readiness delay	≤ 150 ms
Design	rectangular, VS2
Dimensions	4.7 mm x 12 mm x 25.1 mm
Housing material	Plastic, ABS
Lens	plastic, acrylic
Connection	cable
Cable length	2 m
Cable cross section	3 x 0.34 mm ²
Protection class	IP67
Operating voltage	LED green
Switching state	LED yellow
Error indication	LED green flashing
Alarm display	LED yellow flashing