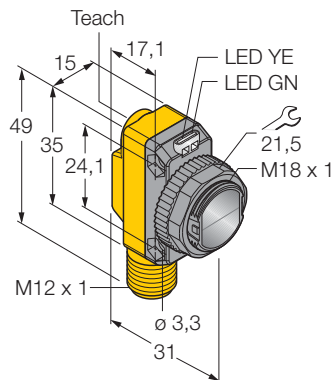


photoelectric sensor
convergent mode sensor
QS18EP6CV45Q8

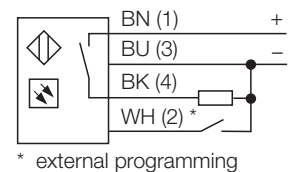
TURCK

Industrial
Automation



- Operating voltage 10...30 VDC
- rectangular
- alarm function
- LED visible from all sides
- sensitivity adjustment via teach button

Wiring diagram

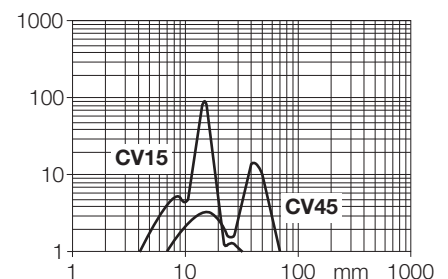


Functional principle

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	QS18EP6CV45Q8
Ident-No.	3071989
Operating mode	convergent mode sensor
Light type	red
Wavelength	660 nm
Focal distance	43 mm
Ambient temperature	-20...+ 70°C
Operating voltage	10... 30 VDC
DC rated operational current	≤ 100 mA
No-load current I ₀	≤ 35 mA
Output function	NO contact, PNP
Switching frequency	≤ 800Hz
Housing	rectangular, QS18
Dimensions	31x 15x 35mm
Housing material	Plastic, ABS
Lens	plastic, acrylic
Electrical connection	Connectors, M12 x 1
Protection class	IP67
Operating voltage	LED green
Switching state	LED yellow
Error indication	LED green flashing
Alarm display	LED yellow flashing