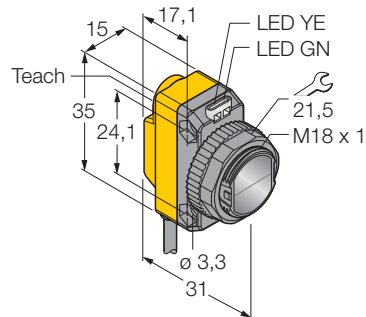


photoelectric sensor
retro-reflective sensor
QS18EP6LP

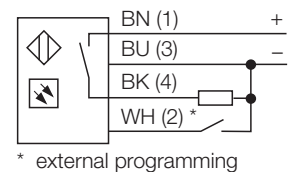
TURCK

Industrial
Automation



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

Wiring diagram

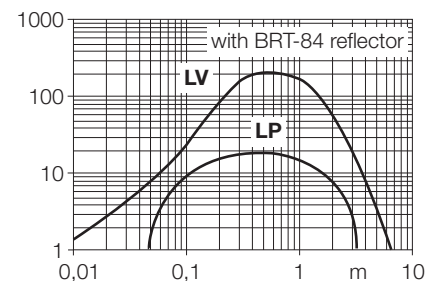


Functional principle

Retro-reflective sensors incorporate emitter and receiver in the same compact housing. The light beam of the emitter is directed towards a reflector which returns the light back to the receiver. An object is detected when it interrupts this beam. Retro-reflective sensors incorporate some of the advantages of opposed mode sensors (good contrast and high excess gain). Further it is merely required to install and wire a single device. A smaller sensing range and susceptibility of devices without polarisation filter can be of disadvantage when shiny objects have to be detected.

Excess gain curve

Excess gain in relation to the distance (type LP)



Type	QS18EP6LP
Ident-No.	3068742
Operating mode	retro-reflective sensor with polarisation filter
Light type	red
Wavelength	660 nm
Range	50... 3500 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	cables
Cable length	2 m
Cable cross section:	4 x 0.5mm ²
Protection class	IP67
Operating voltage	LED green
Switching state	LED yellow
Error indication	LED green flashing
Alarm display	LED yellow flashing