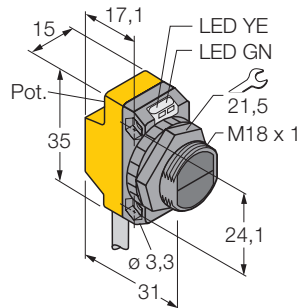


photoelectric sensor

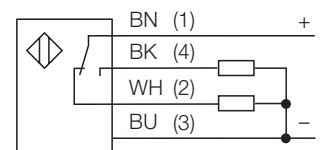
retro-reflective sensor with polarisation filter

QS18VP6LP



- Operating voltage 10...30 VDC
- indication of insufficient excess gain
- LED visible from all sides
- polarisation filter
- sensitivity adjustable via potentiometer
- light/dark operation
- cable, 2m

Wiring diagram

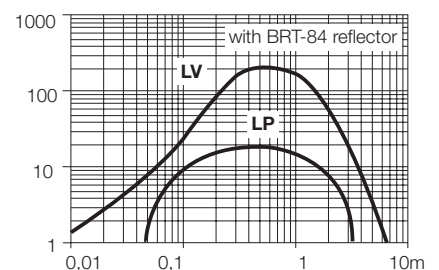


Functional principle

Retro-reflective sensors incorporate emitter and receiver in a single 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	QS18VP6LP
Ident-No.	3061630
Operating mode	retro-reflective sensor with polarisation filter
Light type	red
Wavelength	660 nm
Max. sensing range [mm]	50... 3500 mm
Ambient temperature	-20...+ 70 °C
Operating voltage	10... 30VDC
DC rated operational current	≤ 100 mA
No-load current I_0	≤ 32 mA
Short-circuit protection	yes / cyclic
Reverse polarity protection	yes
Output function	normally open / normally closed, pnp
Switching frequency	≤ 800 Hz
Readiness delay	≤ 100 ms
Housing	rectangular, QS18
Dimensions	31 x 15 x 35 mm
Housing material	plastic, ABS
Lens	plastic, acrylic
Connection	cables
Cable length	2 m
Cable cross section:	4 x 0.35mm ²
Degree of protection	IP67
Operating voltage display	LED green
Display switch state	LED yellow
Error indication	LED green flashing
Excess gain indication	LED yellow flashing