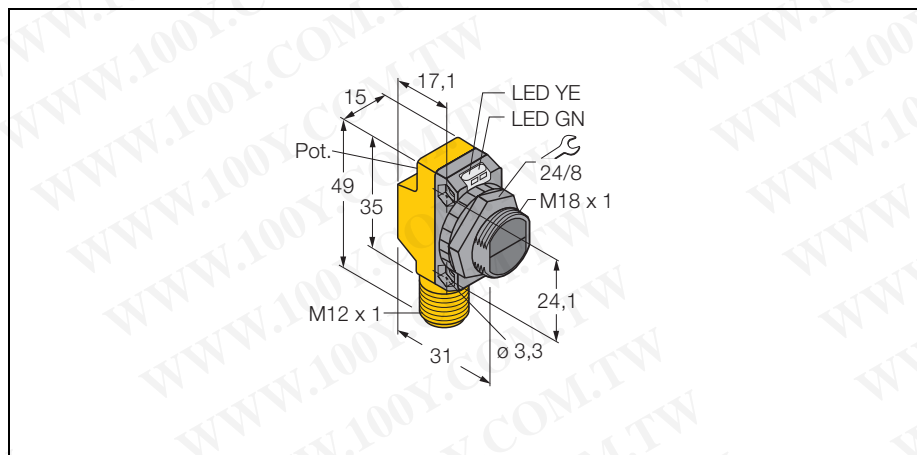


**photoelectric sensor**  
**retro-reflective sensor with polarisation filter**  
**QS18VP6LPQ8**

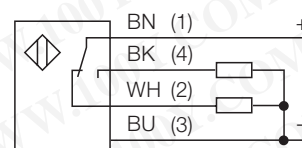
**TURCK**

Industrial  
Automation



- operating voltage 10..30 VDC
- indication of insufficient excess gain
- LED visible from all sides
- polarisation filter
- sensitivity adjustable via potentiometer
- light/dark operation
- M12 x 1 connector

**Wiring diagram**

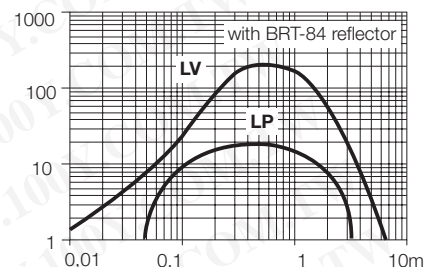


**Function principle**

With retro-reflective sensors, emitter and receiver are incorporated in one 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. The smaller sensing range and susceptibility to interference through shiny objects when using devices without polarisation filter can be disadvantageous in some applications.

**Excess gain curve**

Excess gain in relation to the distance (type LP)



<b>Type</b>	QS18VP6LPQ8
Ident-No.	3066452
<b>Operating mode</b>	retro-reflective sensor with polarisation filter
Light type	red
Wavelengths	660 nm
Max. sensing range [mm]	50... 3500 mm
Ambient temperature	-20...+ 70 °C
<b>Operating voltage</b>	10... 30 V DC
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
<b>Housing style</b>	rectangular; QS18
Dimensions	31x 15x 35mm
Housing material	plastic, ABS
Lens	plastic, acrylic
Connection	connector, M12 x 1
Protection degree	IP67
<b>Operating voltage display</b>	LED green
Switch state display	LED yellow
Error indication	LED green flashing
Excess gain indication	LED yellow flashing

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