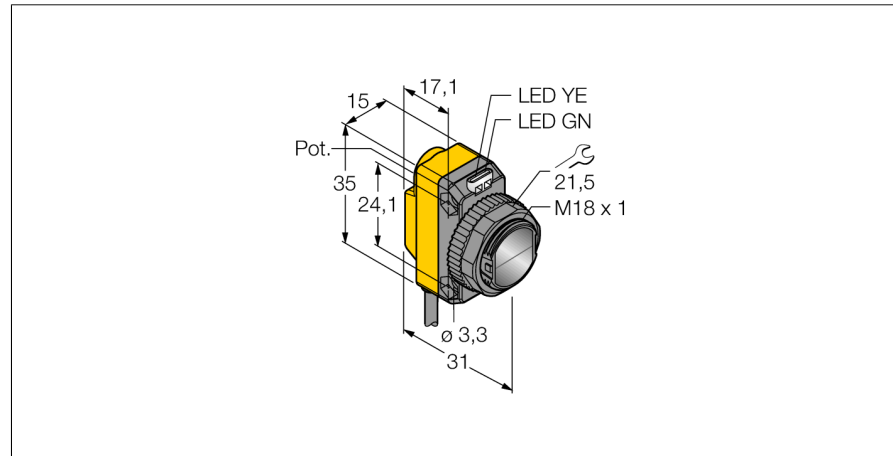
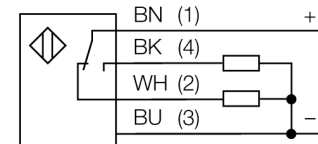


**Photoelectric sensor
retroreflective sensor
QS18VP6LV**



- Cable, PVC, 2 m
- Protection class IP67
- LED all-round visible
- Sensitivity adjusted via potentiometer

Wiring diagram

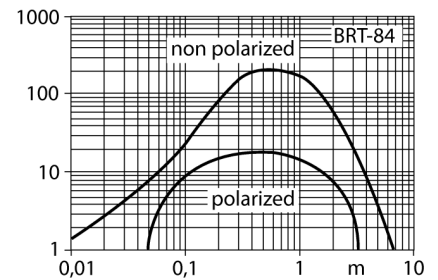


Functional principle

Retroreflective sensors have emitter and receiver circuitry incorporated in the same housing. The light beam of the emitter is directed towards a reflector which returns the light back to the receiver. A target is detected when it interrupts this beam. Retroreflective sensors feature some of the advantages of opposed mode sensors, such as good contrast and high excess gain. Furthermore, only one device has to be installed and wired. Devices without polarizing filter have a smaller sensing range and are more susceptible to disturbances caused by shiny objects.

Excess gain curve

Excess gain in relation to the distance (unpolarized)



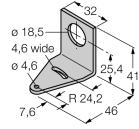
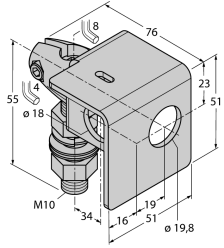
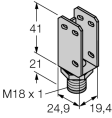
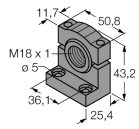
Type code	QS18VP6LV
Ident no.	3061636
Operating mode	retro-reflective sensor
Light type	red
Wavelength	660 nm
Range	0...6500 mm
Ambient temperature	-20...+70 °C
Operating voltage	10...30VDC
Residual ripple	< 10 % U _s
DC rated operational current	≤ 100 mA
Short-circuit protection	yes
Reverse polarity protection	yes
Output function	NO/NC , PNP
Switching frequency	≤ 800 Hz
Readiness delay	≤ 200 ms
Design	rectangular, QS18
Dimensions	31 x 15 x 35 mm
Housing material	plastic, ABS
Lens	plastic, acrylic
Connection	cable, PVC
Cable length	2 m
Cable cross section	4 x 0.35 mm ²
Protection class	IP67
Power-on indication	LED green
Switching state	LED yellow
Error indication	LED green flashing
Excess gain indication	LED yellow flashing

Photoelectric sensor
retroreflective sensor
QS18VP6LV

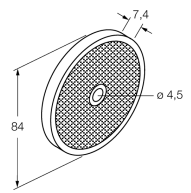
TURCK

Industrial
Automation

Accessories

Type code	Ident no.	Description	Dimension drawing
SMB18A	3033200	Mounting bracket, stainless steel, for sensors with 18 mm thread	 <p>Technical drawing of a stainless steel mounting bracket. Dimensions include: outer diameter 18.5, inner diameter 4.6, width 4.6, height 25.4, mounting hole diameter 4.6, radius R 24.2, and a base width of 46.</p>
SMB18AFAM10	3012558	Mounting bracket, material VA 1.4401, for M10 x 1.5 thread, thread length 18 mm	 <p>Technical drawing of a mounting bracket for M10 x 1.5 thread. Dimensions include: total width 76, height 23, mounting hole diameter 18, and a base width of 51.</p>
SMBQS18A	3069721	Mounting bracket, stainless steel, for 18 mm thread	 <p>Technical drawing of a stainless steel mounting bracket for 18 mm thread. Dimensions include: height 41, mounting hole diameter 18, and a base width of 19.4.</p>
SMB18SF	3052519	Mounting bracket, PTB black steel, for sensors with 18 mm thread	 <p>Technical drawing of a PTB black steel mounting bracket for 18 mm thread. Dimensions include: height 50.8, mounting hole diameter 18, and a base width of 25.4.</p>

Function accessories

Type code	Ident no.	Description	Dimension drawing
BRT-84	3058979	Round reflector, reflection coefficient 1.4, material acrylic, ambient temperature -20 ... +60 °C	 <p>Technical drawing of a round reflector. Dimensions include: diameter 84, thickness 7.4, and a central hole diameter of 4.5.</p>