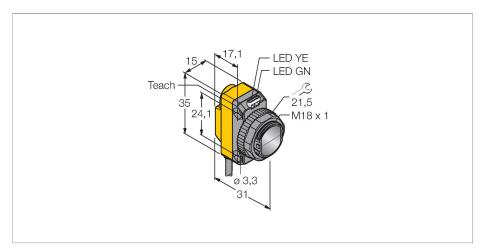


# QS18EN6LP Photoelectric Sensor – Retroreflective Sensor with Polarizing Filter





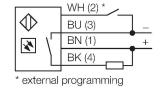
Туре	QS18EN6LP
ID	3068741
Optical data	
Function	Retroreflective Sensor
Operating mode	Polarized
Reflector included in delivery	no
Light type	Red polarized
Wavelength	630 nm
Range	503500 mm
Electrical data	
Operating voltage	1030 VDC
DC rated operational current	≤ 100 mA
No-load current	≤ 35 mA
Reverse polarity protection	yes
Output function	NO contact, NPN
Switching frequency	≤ 833 Hz
Readiness delay	≤ 100 ms
Response time typical	< 0.6 ms
Setting option	Push Button Remote Teach
Mechanical data	
Design	Rectangular with thread, QS18
Dimensions	Ø 18 x 31 x 15 x 35 mm
Housing material	Plastic, ABS
Lens	plastic, PMMA
Electrical connection	Cable, 2 m, PVC



#### **Features**

- Cable, PVC, 2 m, 4-wire
- ■Protection class IP67
- ■LED all-round visible
- ■Sensitivity adjusted via teach button
- Operating voltage: 10...30 VDC
- ■NPN switching output
- Light or dark operation

#### Wiring diagram



#### Functional principle

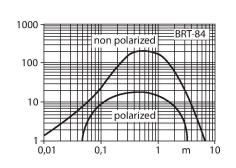
Retro-reflective sensors incorporate emitter and receiver in the same compact housing. The light beam of the emitter is directed towards a reflector which returns the light back to the receiver. An object is detected when it interrupts this beam. Retro-reflective sensors incorporate some of the advantages 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)



### Technical data

Number of cores	4
Core cross-section	0.5 mm <sup>2</sup>
Ambient temperature	-20+70 °C
Protection class	IP67
Special features	keep/defer
Power-on indication	LED, Green
Switching state	LED, Yellow
Error indication	LED, green, Flashing
Excess gain indication	LED
Alarm display	LED yellow Flashing
Tests/approvals	
Approvals	CE, cURus



#### Accessories

SMB18A 3033200

Mounting bracket, rectangular, stainless steel, for sensors with 18 mm thread

Ø 18.5 Ø 4.6 R 24.2 Ø 4.6 A 6 Ø 4.6 3012558 Mounting bracket, material VA 1.4401, for M10 x 1.5 thread, thread length 18 mm

M18 x 1 24,9 19,4

3069721 Mounting bracket, stainless steel, for 18 mm thread SMB18SF 11,7 50,8 M18 x 1 Ø 5 43,2 25,4 3052519 Mounting bracket, PBT black, for sensors with 18 mm thread, rotatable



## TURCK

#### Accessories

Dimension drawing

Type

BRT-84

3058979

Round reflector, reflection coefficient
1.4, material acrylic, ambient
temperature -20 ... +60 °C

