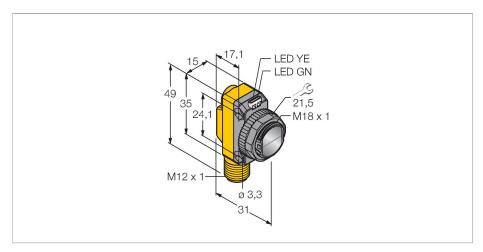
# QS18VP6FF150Q8 Photoelectric Sensor – Diffuse Mode Sensor with Fixed-Field Background Suppression





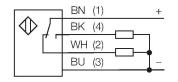
Туре	QS18VP6FF150Q8
ID	3801162
Optical data	
Function	Proximity switch
Operating mode	Background suppression, non-adjustable
Light type	Red
Wavelength	632 nm
Range	0150 mm
Electrical data	
Operating voltage	1030 VDC
Residual ripple	< 10 % U <sub>ss</sub>
DC rated operational current	≤ 100 mA
Short-circuit protection	yes
Reverse polarity protection	yes
Output function	NO/NC, PNP
Current output	100 mA
Switching frequency	≤ 625 Hz
Readiness delay	≤ 100 ms
Response time typical	< 0.85 ms
Mechanical data	
Design	Rectangular with thread, QS18
Dimensions	Ø 18 x 31 x 15 x 35 mm
Housing material	Plastic, ABS
Lens	plastic, Acrylic
Electrical connection	Connector, M12 × 1, PVC
Number of cores	4

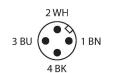


#### **Features**

- Male M12 × 1, 4-pin
- ■Protection class IP67
- ■LED all-round visible
- ■Operating voltage: 10...30 VDC
- ■PNP switching output, changeover

### Wiring diagram





## Functional principle

Diffuse mode sensors with background suppression operate with a single emitter and several receiver elements. The target position and the photoelectric structure of the sensor determine which of the receiving elements receives the most light. The sensor electronics determine whether the reflecting object is within or outside the measuring range. These sensors come with a fixed cut-off point.

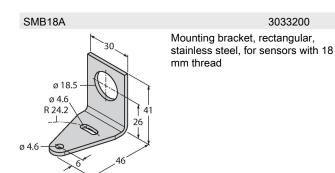
Excess gain curve
Excess gain in relation to the distance

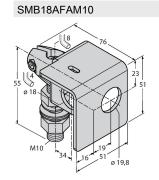


### Technical data

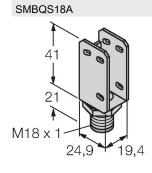
Ambient temperature	-20+70 °C		
Protection class	IP67		
Power-on indication	LED, Green		
Switching state	LED, Yellow		
Error indication	LED, green, Flashing		
Excess gain indication	LED, yellow, flashing		
Tests/approvals			
MTTF	965 years acc. to SN 29500 (Ed. 99) 40 °C		
Approvals	CE, cURus		

### Accessories

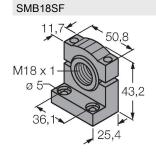




3012558 Mounting bracket, material VA 1.4401, for M10 x 1.5 thread, thread length 18 mm



3069721 Mounting bracket, stainless steel, for 18 mm thread



Mounting bracket, PBT black, for sensors with 18 mm thread, rotatable

3052519

#### Accessories

Dimension drawing	Туре	ID	
M12x1 o 15 /2 14	RKC4.4T-2/TEL	6625013	Connection cable, female M12, straight, 4-pin, cable length: 2 m, sheath material: PVC, black; cULus approval; other cable lengths and qualities available, see www.turck.com



Dimension drawing

Type

WKC4.4T-2/TEL

6625025

Connection cable, female M12, angled, 4-pin, cable length: 2 m, sheath material: PVC, black; cULus approval; other cable lengths and qualities available, see www.turck.com