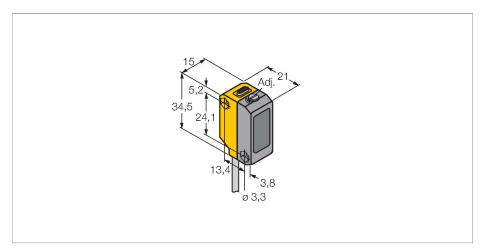


QS18VP6LAF W/30' Photoelectric Sensor – Laser Diffuse Mode Sensor with Adjustable Background Suppression





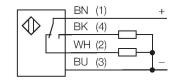
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Readiness delay ≤ 200 ms Response time typical < 0.7 ms	
Response time typical < 0.7 ms Setting option Mechanical Screw	
Setting option Mechanical Screw	
Mechanical data	
Design Rectangular, QS18	
Dimensions 21.1 x 15 x 34.5 mm	
Housing material Plastic, ABS	



Features

- Cable, PVC, 2 m
- ■Protection class IP67
- ■LED all-round visible
- Cut-off point adjusted via potentiometer
- Operating voltage: 10...30 VDC
- ■PNP switching output, changeover

Wiring diagram



Functional principle

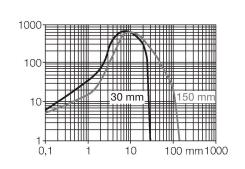
Diffuse mode sensors with background suppression operate with a single emitter and several receiver elements, one for close range and one for long-range. The target position and the photoelectric structure of the sensor determine which of the receiving elements receives the most light. The optics before the receiver is modified with the adjusting screw until the boundary between close and long-range is shifted. This operation determines whether the reflecting object is within or outside the measuring range.

Excess gain curves relating to the nearest and farthest cut-off point



Technical data

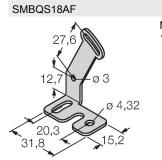
Lens	plastic, Acrylic
Electrical connection	Cable, 9 m, PVC
Number of cores	4
Core cross-section	0.35 mm ²
Ambient temperature	-10+50 °C
Protection class	IP67
Power-on indication	LED, Green
Switching state	LED, Yellow
Error indication	LED, green, Flashing
Excess gain indication	LED, yellow, flashing
Tests/approvals	
MTTF	268 years acc. to SN 29500 (Ed. 99) 40 °C
Approvals	CE, cURus



Accessories

M18 x 1

SMBQS18A	3069721
41 000	Mounting bracket, stainless steel, for 18 mm thread



3067467 Mounting bracket, stainless steel, for 18 mm thread