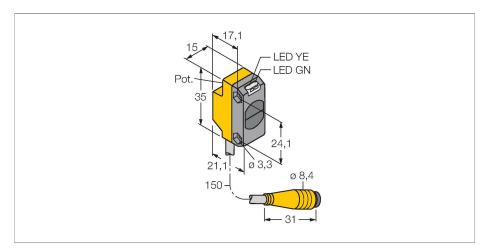


QS18VP6DLQ Photoelectric Sensor – Diffuse Mode Sensor





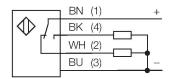
Туре	QS18VP6DLQ	
ID	3800768	
Optical data		
Function	Proximity switch	
Operating mode	Diffuse	
Light type	IR	
Wavelength	940 nm	
Range	1600 mm	
Electrical data		
Operating voltage	1030 VDC	
Residual ripple	< 10 % U _{ss}	
DC rated operational current	≤ 100 mA	
Short-circuit protection	yes	
Reverse polarity protection	yes	
Output function	NO/NC, PNP	
Current output	100 mA	
Switching frequency	≤ 800 Hz	
Readiness delay	≤ 100 ms	
Response time typical	< 0.85 ms	
Setting option	Potentiometer	
Mechanical data		
Design	Rectangular with thread, QS18	
Dimensions	Ø 18 x 21.1 x 15 x 35 mm	
Housing material	Plastic, ABS	
Lens	plastic, Acrylic	
Electrical connection	Cable with connector, M8 × 1, 0.15 m, PVC	



Features

- Cable with male end, 4-pin, PVC, 150 mm, 8 mm
- ■Protection class IP67
- ■LED all-round visible
- Sensitivity adjusted via potentiometer
- Operating voltage: 10...30 VDC
- ■PNP switching output, changeover

Wiring diagram





Functional principle

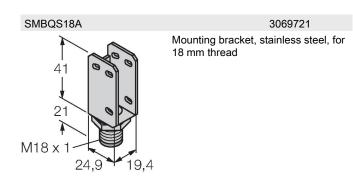
Identical to retro-reflective sensors, emitter and receiver circuitry are incorporated in the same housing of the diffuse mode sensors. However, diffuse mode sensors do not detect the interruption of the light beam but the reflection of the target. A target is detected if it reflects sufficient light back to the receiver. The switching distance of diffuse mode sensors thus largely depends on the reflectivity of the target.

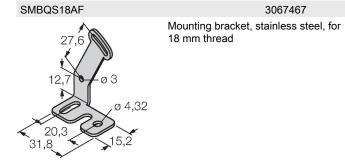
Excess gain curve Excess gain in relation to the distance

Technical data

Number of cores	4	
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		
Approvals	CE, cURus	

Accessories





Accessories

D	_	.5	
Dimension drawing	Type	ID	
M8 x 1 o 9.6	PKG4M-2/TEL	6625061	Connection cable, female M8, straight, 4-pin, cable length: 2 m, sheath material: PVC, black; cULus approval; other cable lengths and qualities available, see www.turck.com
M8 x 1 — 9.5 † 29 10.5	PKW4M-2/TEL	6625067	Connection cable, female M8, angled, 4-pin, cable length: 2 m, sheath material: PVC, black; cULus approval; other cable lengths and qualities available, see www.turck.com