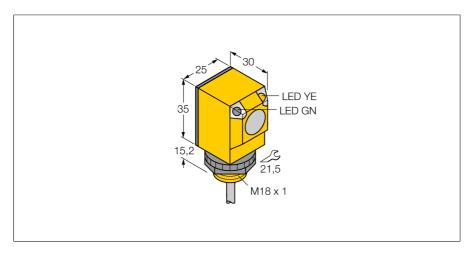


# Photoelectric Sensor Opposed Mode Sensor (Receiver) Q25SN6R W/30





Туре	Q25SN6R W/30	
ID	3033867	
Optical data		
Function	Opposed mode sensor	
Operating mode	Receiver	

3033867	
Opposed mode sensor	
Receiver	
020000 mm	

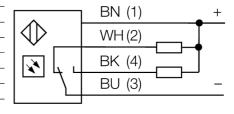
Electrical data	
Operating voltage U <sub>B</sub>	1030 VDC
No-load current I₀	≤ 25 mA
Short-circuit protection	yes/Cyclic
Reverse polarity protection	yes
Output function	Connection programmable, NPN
Switching frequency	≤ 160 Hz
Readiness delay	≤ 100 ms
Response time typical	< 3 ms
Overcurrent release	> 220 mA

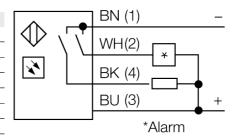
Mechanical data		
Design	Rectangular, Q25	
Dimensions	Ø 18 x 30 x 25 x 50.2 mm	
Housing material	Plastic, Thermoplastic material	
Lens	plastic, Polycarbonate	
Electrical connection	Cable, 9 m, PVC	
Number of cores	4	
Core cross-section	0.5 mm²	
Ambient temperature	-40+70 °C	
Protection class	IP69	
0 116 6	0	

Special features	Chemical-resistant
	Encapsulated
	Wash down
Power-on indication	LED, Green
Switching state	LED, Yellow
Error indication	LED, green, Flashing
Excess gain indication	LED
Alarm display	LED yellow Flashing

- Cable, 2 m
- Protection class IP67
- Ambient temperature: -40...+70 °C
- Selectable light/dark operation or light operation with alarm function
- Operating voltage: 10...30 VDC
- NPN switching output, changeover

# Wiring Diagram





### **Functional principle**

Opposed mode sensors consist of an emitter and receiver. They are installed opposite each other so that the light from the emitter is aimed directly at the receiver. When an object interrupts or weakens the light beam, the sensor switches. Opposed mode sensors are the most reliable photoelectric sensors for detection of opaque targets. An excellent contrast between light and dark conditions and an extremly high excess gain are typical of this

Range

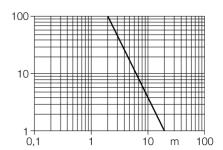


Tests/approvals	
Approvals	CE, UL, CSA

sensing mode, thus allowing operation over larger distances and under difficult conditions.

# Excess gain curve

Excess gain in relation to the distance





# **Accessories**

Type code	Ident no.		Dimension drawing
SMB18A	3033200	Mounting bracket, rectangular, stainless steel, for sensors with 18 mm thread	0 18.5 0 4.6 R 24.2 0 4.6
SMB18AFAM10	3012558	Mounting bracket, material VA 1.4401, for M10 x 1.5 thread, thread length 18 mm	M10 34 16 51 0 19.8
SMB18SF	3052519	Mounting bracket, PBT black, for sensors with 18 mm thread, rotatable	11.7 50.8 M18 x 1 43.2 9 5 43.2 36,1 25,4