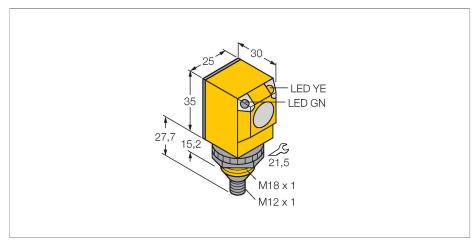


Q25RW3RQ1 Photoelectric Sensor – Opposed Mode Sensor (Receiver)





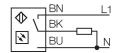
Туре	Q25RW3RQ1	
ID	3031973	
Optical data		
Function	Opposed mode sensor	
Operating mode	Receiver	
Range	020000 mm	
Electrical data		
Operating voltage	20250 VAC	
AC rated operational current	≤ 200 mA	
Output function	Dark operation, Relay output	
Switching frequency	≤ 40 Hz	
Readiness delay	≤ 100 ms	
Response time typical	< 16 ms	
Mechanical data		
Design	Rectangular, Q25	
Dimensions	Ø 18 x 30 x 25 x 62.7 mm	
Housing material	Plastic, Thermoplastic material	
Lens	plastic, Polycarbonate	
Electrical connection	Connector, 1/2", PVC	
Number of cores	4	
Ambient temperature	-40+70 °C	
Protection class	IP69	
Special features	Chemical-resistant Encapsulated Wash down	
Power-on indication	LED, Green	
Switching state	LED, Yellow	
Excess gain indication	LED	



Features

- ■M12 × 1 male connector, 4-pin
- Protection classes IP67/IP69K
- ■Ambient temperature: -40 °C...+70 °C
- Selectable light/dark operation or light operation with alarm function

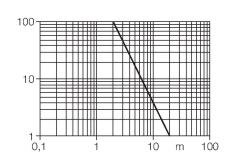
Wiring diagram



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

Excess gain in relation to the distance



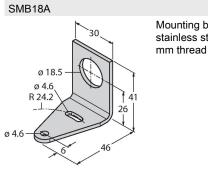


Technical data

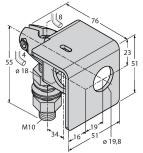
Tests/	an.	nro	vals
1 0313/	uρ	$\rho_1 \sigma$	vais

Approvals CE, UL, CSA

Accessories

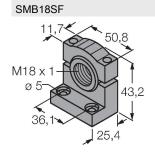


3033200 Mounting bracket, rectangular, stainless steel, for sensors with 18



SMB18AFAM10 3012558

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



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

3052519