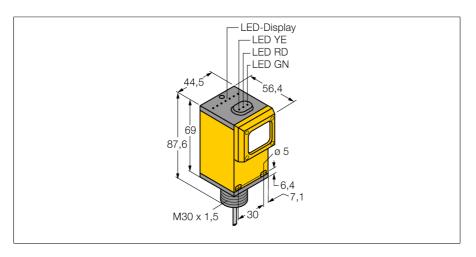


Photoelectric Sensor Opposed Mode Sensor (Emitter/Receiver) Q45BW22R W/30





Operating mode	Pagaiyar
Function	Opposed mode sensor
Optical data	
ID	3038482
туре	Q45BW22R W/30

0...60000 mm Range

Operating voltage U _B	90250VAC	
No-load current I _o	≤ 50 mA	
Output function	NO contact, Relay output	
Readiness delay	≤ 100 ms	
Response time typical	< 2 ms	
Setting option	Potentiometer	

Mechanical data		
Design	Rectangular, Q45	
Dimensions	Ø 30 x 56.4 x 44.5 x 87.6 mm	
Housing material	Plastic, Thermoplastic material	
Lens	plastic, Acrylic	
Electrical connection	Cable, 9 m, PVC	
Number of cores	3	
Core cross-section	0.34 mm²	
Ambient temperature	-40+70 °C	
Protection class	tion class IP67	

Special features	keep/defer	
Power-on indication	LED, Green	
Switching state	LED, Yellow	
Error indication	LED, green	
Excess gain indication	LED, red	

Tests/approvals MTTF	67 years acc. to SN 29500 (Ed. 99) 40 °C	
Approvals CE, cURus, CSA		

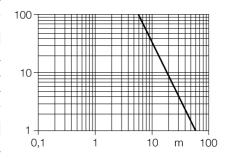
- Cable, PVC, 2 m
- Protection class IP67
- Sensitivity adjusted via potentiometer
- Operating voltage: 90...250 VAC
- Relay output, NO (SPST)
- Light or dark operation, adjusted via selector switch

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





Accessories

Type code	Ident no.		Dimension drawing
SMB30A	3032723	Mounting bracket, rectangular, stainless steel, for sensors with 30mm thread	o 30.5 6.3 wide o 6.3 7.5 R 40 69
SMB30FAM10	3011185	Mounting bracket, stainless steel, for M10 x 1.5 thread, thread length 30 mm	78.4 60.3 19 19 19 19 19 10 10 10 10 10 10 10 10 10 10
SMB30SC	3052521	Mounting bracket, PBT black, for sensors with 30 mm thread rotatable	12.7 M30 x 1,5 50,8 29