

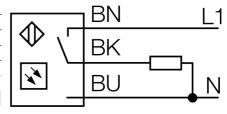
Photoelectric Sensor Opposed Mode Sensor (Receiver) S30AW3RQ3

Туре	S30AW3RQ3	
ID	3036906	
Optical data		
Function	Opposed mode sensor	
Operating mode	Receiver	
Range	060000 mm	
Electrical data		
Operating voltage U _B	20250VAC	
AC rated operational current	≤ 200 mA	
Output function	Light operation, Relay output	
Switching frequency	≤ 40 Hz	
Readiness delay	≤ 100 ms	
Response time typical	< 16 ms	
Mechanical data		
Design	Threaded barrel, S30	
Dimensions	Ø 30 x 89.4 mm	
Housing material	Plastic, PBT	
Lens	plastic, Lexan	
Electrical connection	Connector, M12 × 1, PVC	
Number of cores	5	
Ambient temperature	-40+70 °C	
Protection class	IP69	
Special features	Wash down	
Power-on indication	LED, Green	
Switching state	LED, Yellow	
Excess gain indication	LED	
Tests/approvals		
Approvals	CE, UL, CSA	



- Male ½ ", 4-pin
- Protection classes IP67/IP69K
- Ambient temperature: -40...+70 ° C

Wiring Diagram

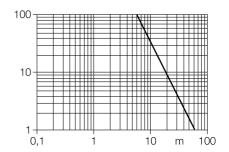


Functional principle

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





Accessories

Type code	Ident no.		Dimension drawing
SMB30A	3032723	Mounting bracket, rectangular, stainless steel, for sensors with 30mm thread	e 30,5 6,3 wide e 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 78.4 60.3 75 61.6 19 9 9 30.1
SMB30SC	3052521	Mounting bracket, PBT black, for sensors with 30 mm thread rotatable	12.7 66.5 0.7 50.8 29
SMBAMS30P	3073135	Mounting bracket, stainless steel, for sensors with 30 mm thread	0 6.5 0 25 0 7 22.5 70.5 93