

S30AW3RQ3 Photoelectric Sensor – Opposed Mode Sensor (Receiver)

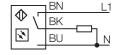
Technical data	
Туре	S30AW3RQ3
ID no.	3036906
Optical data	
Function	Opposed mode sensor (receiver)
Range	060000 mm
Electrical data	
Operating voltage	20250 VAC
AC rated operational current	≤ 200 mA
Output function	Light operation, Relay output
Switching frequency	≤ 40 Hz
Readiness delay	≤ 100 ms
Response 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	Connectors, 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



Features

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

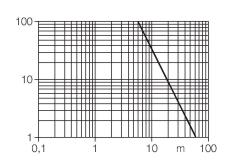
Wiring diagram



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

SMB30A Ø 30,5 6,3 wide Ø 6,3 B 40

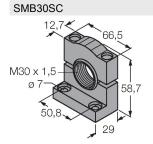
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Mounting bracket, rectangular, stainless steel, for sensors with 30mm thread



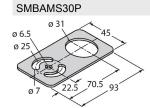
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Mounting bracket, stainless steel, for M10 x 1.5 thread, thread length 30 mm $\,$



3052521

Mounting bracket, PBT black, for sensors with 30 mm thread, rotatable



3073135

Mounting bracket, stainless steel, for sensors with 30 mm thread