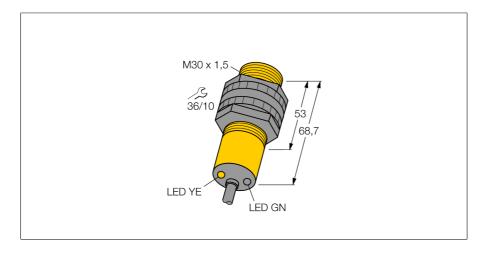


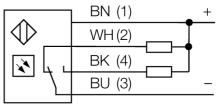
Photoelectric Sensor Opposed Mode Sensor (Receiver) S30SN6R W/30

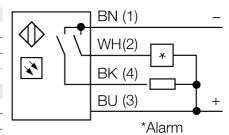


Туре	S30SN6R W/30	
ID	3033893	
Optical data		
Function	Opposed mode sensor	
Operating mode	Receiver	
Range	060000 mm	
Electrical data		
Operating voltage U _B	1030 VDC	
No-load current I₀	≤ 25 mA	
Short-circuit protection	yes/Cyclic	
Reverse polarity protection	yes	
Output function	Connection programmable, NPN	
Switching frequency	≤ 160 Hz	
Readiness delay	≤ 100 ms	
Response time typical	< 3 ms	
Overcurrent release	> 220 mA	
Mechanical data		
Design	Tube, S30	
Dimensions	Ø 30 x 68.7 mm	
Housing material	Plastic, Thermoplastic material	
Lens	plastic, Acrylic	
Electrical connection	Cable, 9 m, PVC	
Number of cores	4	
Core cross-section	0.5 mm²	
Ambient temperature	-40+70 °C	
Protection class	IP67	
Special features	Encapsulated	
Power-on indication	LED, Green	
Switching state	LED, Yellow	
Error indication	LED, green, Flashing	
	LED	
Excess gain indication	LED	

- 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



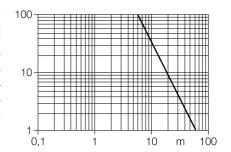


Functional principle

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

Excess gain curve

Excess gain in relation to the distance





Tests/approvals	
Approvals	CE, UL, CSA



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