

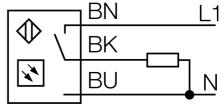
# Photoelectric Sensor Retroreflective Sensor with Polarizing Filter S30RW3LPQ3

Туре	S30RW3LPQ3	
ID	3036900	
Optical data		
Function	Retroreflective Sensor	
Operating mode	Polarized	
Reflector included in delivery	no	
Light type	Red polarized	
Wavelength	680 nm	
Range	506000 mm	
Electrical data		
Operating voltage U <sub>B</sub>	20250VAC	
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	Tube, S30	
Dimensions	Ø 30 mm	
Housing material	Plastic, Thermoplastic material	
Lens	plastic, Acrylic	
Electrical connection	Connector, M12 × 1, PVC	
Number of cores	5	
Ambient temperature	-40+70 °C	
Protection class	IP69	
Special features	Encapsulated	
	Wash down	
Power-on indication	LED, Green	
Switching state	LED, Yellow	
Excess gain indication	LED	
Tests/approvals	OF III OOA	
Approvals	CE, UL, CSA	



- M12 × 1 male connector, 4-pin
- Protection classes IP67/IP69K
- Ambient temperature: -40 °C...+70 °C

### Wiring Diagram

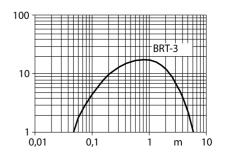


### **Functional principle**

Retro-reflective sensors incorporate emitter and receiver in a single compact housing. The light beam of the emitter is directed towards a reflector which returns the light back to the receiver. An object is detected when it interrupts this beam. Retro-reflective sensors have a high function gain and good contrast performance. Further it is merely required to install and wire a single device.

## 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	0 30.5 6,3 wide 0 6,3 wide 7,5
SMB30FAM10	3011185	Mounting bracket, stainless steel, for M10 x 1.5 thread, thread length 30 mm	78.4 60.3 19 61.6 M10 M10
SMB30SC	3052521	Mounting bracket, PBT black, for sensors with 30 mm thread rotatable	M30 x 1,5 0 7 50,8 29
SMBAMS30P	3073135	Mounting bracket, stainless steel, for sensors with 30 mm thread	0 65 0 25 0 7 22.5 70.5 93

# **Function accessories**

Type code	Ident no.		Dimension drawing
BRT-3	3016164	Round reflector, reflection coefficient 1.0, material acrylic, ambient temperature -20+60 °C	Ø 5.2 [0.21] 7 [0.28]