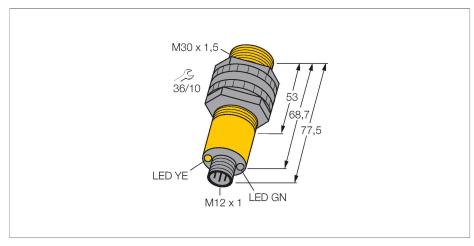
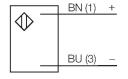
# S306EQ Photoelectric Sensor – Opposed Mode Sensor (Emitter)



### **Features**

- ■M12 × 1 male connector, 4-pin
- Protection classes IP67/IP69K
- ■Ambient temperature: -40 °C...+70 °C
- Operating voltage: 10...30 VDC

# Wiring diagram



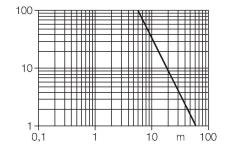
### Technical data

Туре	S306EQ		
ID	3033376		
Optical data			
Function	Opposed mode sensor		
Operating mode	Emitter		
Light type	IR		
Wavelength	950 nm		
Range	060000 mm		
Electrical data			
Operating voltage	1030 VDC		
Residual ripple	< 10 % U <sub>ss</sub>		
Readiness delay	≤ 100 ms		
Mechanical data			
Design	Tube, S30		
Dimensions	Ø 30 x 77.5 mm		
Housing material	Plastic, Thermoplastic material		
Lens	plastic, Acrylic		
Electrical connection	Connector, M12 × 1, PVC		
Number of cores	4		
Ambient temperature	-40+70 °C		
Protection class	IP69		
Special features	Encapsulated Wash down		
Power-on indication	LED, Green		
Excess gain indication	LED		
Tests/approvals			
Approvals	CE, UL, CSA		
-			

## Functional principle

Opposed mode sensors consist of an emitter and receiver. They are installed opposite to 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. The excellent light/dark contrast and the high excess gain allow operation over larger distances and under difficult conditions.

Excess gain curve
Excess gain in relation to the distance



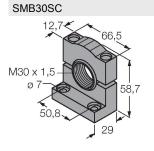
3011185

3073135

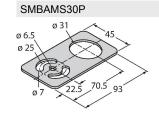
3032723 Mounting bracket, rectangular, stainless steel, for sensors with 30mm thread

# SMB30FAM10

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



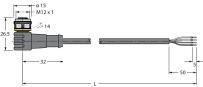
3052521 Mounting bracket, PBT black, for sensors with 30 mm thread, rotatable



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

### Accessories

Dimension drawing	Туре	ID	
M12 x 1 o 15	RKC4.4T-2/TEL	6625013	Connection cable, female M12, straight, 4-pin, cable length: 2 m, sheath material: PVC, black; cULus approval; other cable lengths and qualities available, see www.turck.com
015 M12x1	WKC4.4T-2/TEL	6625025	Connection cable, female M12, angled, 4-pin, cable length: 2 m, sheath material: PVC, black; cULus approval;



other cable lengths and qualities available, see www.turck.com