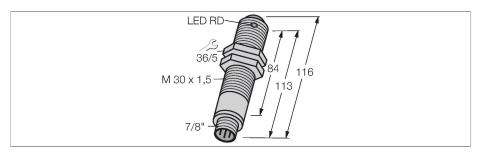


SM2A30SRLQD Photoelectric Sensor – Opposed Mode Sensor (Receiver)



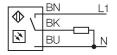
Technical data

Туре	SM2A30SRLQD		
ID no.	3027294		
Optical data			
Function	Opposed mode sensor		
Operating mode	Receiver		
Range	0150000 mm		
Electrical data			
Operating voltage	24240 VAC		
AC rated operational current	≤ 200 mA		
Output function	Light operation, Relay output		
Switching frequency	≤ 40 Hz		
Readiness delay	≤ 0 ms		
Response time typical	< 10 ms		
Mechanical data			
Design	Threaded barrel, SM30		
Dimensions	Ø 30 x 116 mm		
Housing material	Metal, Stainless steel		
Lens	plastic, Acrylic		
Electrical connection	Connectors, 7/8", PVC		
Number of cores	3		
Core cross-section	0.5 mm ²		
Ambient temperature	-40+70 °C		
Protection class	IP67		
Special features	Chemical-resistant Encapsulated Resistant to chemicals		
Power-on indication	LED, Green		
Switching state	LED, Yellow		
Excess gain indication	LED		
Tests/approvals			
Approvals	CE, cURus, CSA		

Features

- ■7/8" connector, 3-pin
- ■Protection class IP67
- ■Ambient temperature: -40...+70 °C
- Modulation frequency A, requires transmitters with the same frequency
- Operating voltage: 24...240 VAC
- Semiconductor relay output, SPST, light operation

Wiring diagram





Functional principle

Opposed mode sensors consist of an emitter and a receiver. They are installed opposite to each other whereby the emitted light aims 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 objects. The excellent light/dark contrast and the very high excess gain are typical for this function mode and enable operation over large distances and under difficult conditions. Excess gain curve

Excess gain in relation to distance





Accessories

Dimension drawing	Туре	ID no.	
	SM30CC-306	3045133	Connecting cable, PVC jacket, 2 m, 7/8"
			female connector, straight, 3-pin