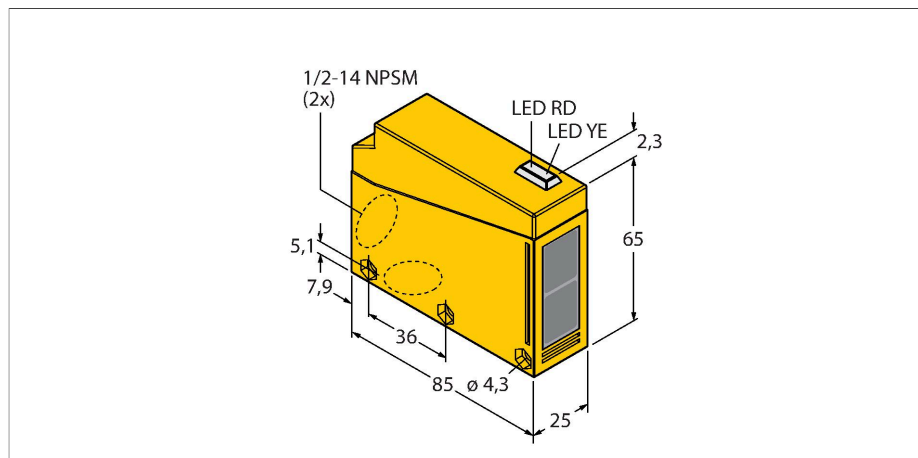


Q853E-B

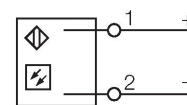
Photoelectric Sensor – Opposed Mode Sensor (Emitter)



Features

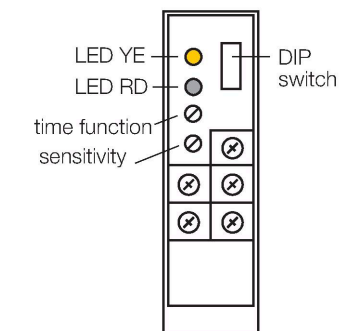
- Integrated terminal chamber
- Cable glands, offset installation by 90° in two places
- Protection class IP67
- Operating voltage: 12...240 VDC, 24...240 VAC

Wiring diagram



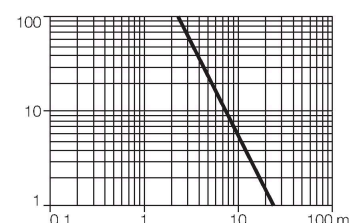
Technical data

Type	Q853E-B
ID	3031649
Optical data	
Function	Opposed mode sensor
Operating mode	Emitter
Light type	Red
Wavelength	680 nm
Range	0...23000 mm
Electrical data	
Operating voltage	12...240 VDC
Operating voltage	24...240 VAC
DC rated operational current	≤ 3000 mA
AC rated operational current	≤ 3000 mA
Readiness delay	≤ 0 ms
Response time typical	< 20 ms
Setting option	Potentiometer
Mechanical data	
Design	Rectangular, Q85
Dimensions	85 x 65 x 25 mm
Housing material	Plastic, Thermoplastic material, Yellow
Lens	acrylic, Acrylic
Electrical connection	Terminal block
Number of cores	2
Ambient temperature	-25...+55 °C
Protection class	IP67
Excess gain indication	LED



Functional principle

Opposed mode sensors consist of a separate emitter and receiver. These are installed directly 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 extremely high excess gain are typical of this sensing mode, thus allowing operation over larger distances and under difficult conditions, e.g. dirt build-up on the lens or sensor misalignment.



Technical data

Tests/approvals