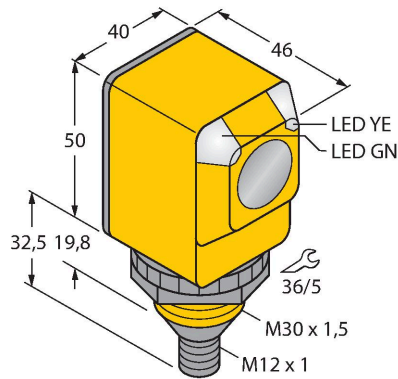


Q40RW3RQ3

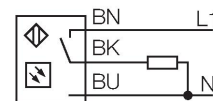
Photoelectric Sensor – Opposed Mode Sensor (Receiver)



Features

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

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 extremely 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

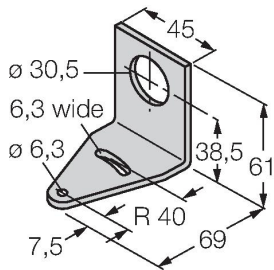
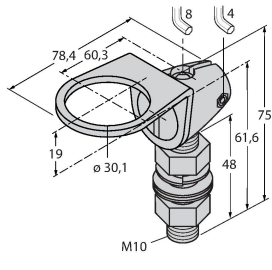
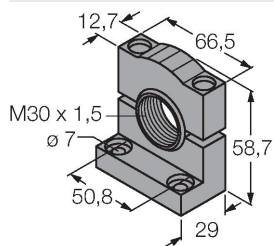
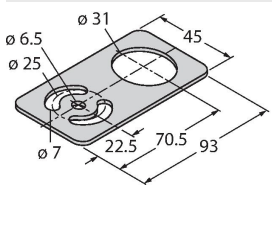
Technical data

Type	Q40RW3RQ3
ID no.	3036987
Optical data	
Function	Opposed mode sensor
Operating mode	Receiver
Light type	IR
Wavelength	950 nm
Range	0...60000 mm
Electrical data	
Operating voltage	20...250 VAC
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	Rectangular, Q40
Dimensions	Ø 30 x 50 x 46 x 40 mm
Housing material	Plastic, Thermoplastic material
Lens	Lexan, Polycarbonate
Electrical connection	Connectors, 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

Technical data

Switching state	LED, Yellow
Excess gain indication	LED
Tests/approvals	
Approvals	CE, UL, CSA

Accessories

SMB30A 	3032723 Mounting bracket, rectangular, stainless steel, for sensors with 30mm thread	SMB30FAM10 	3011185 Mounting bracket, stainless steel, for M10 x 1.5 thread, thread length 30 mm
SMB30SC 	3052521 Mounting bracket, PBT black, for sensors with 30 mm thread, rotatable	SMBAMS30P 	3073135 Mounting bracket, stainless steel, for sensors with 30 mm thread