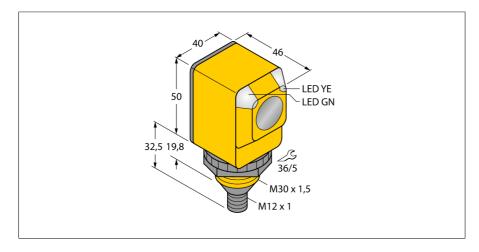


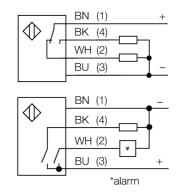
Photoelectric Sensor Opposed Mode Sensor (Receiver) Q40S2P6RQ



Туре	Q40S2P6RQ
ID	3045169
Optical data	
Function	Opposed mode sensor
Operating mode	Receiver
Range	060000 mm
Electrical data	
Operating voltage U _B	1030 VDC
No-load current I₀	≤ 25 mA
Short-circuit protection	yes/Cyclic
Reverse polarity protection	yes
Output function	Connection programmable, PNP
Switching frequency	≤ 160 Hz
Readiness delay	≤ 100 ms
Response time typical	< 3 ms
Overcurrent release	> 220 mA
Mechanical data	
Design	Rectangular, Q40
Dimensions	Ø 30 x 46 x 40.1 x 82.5 mm
Housing material	Plastic, Thermoplastic material
Lens	plastic, Polycarbonate
Electrical connection	Connector, M12 × 1, PVC
Number of cores	4
Ambient temperature	-40+70 °C
Protection class	IP67
	IP69
Canadal factures	Enconculated
Special features	Encapsulated
Dower on indication	Wash down
Power-on indication	LED, Green
Switching state	LED, Yellow
Error indication	LED, green, Flashing
Excess gain indication	LED

- M12 × 1 male connector, 4-pin
- Protection classes IP67/IP69K
- Ambient temperature: -40 °C...+70 °C
- Selectable light/dark operation or light operation with alarm function
- Operating voltage: 10...30 VDC
- PNP switching output, changeover

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 extremly 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

Alarm display

LED yellow Flashing



Tests/approvals	
Approvals	CE, UL, CSA



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 7,5 H 40 69
SMB30FAM10	3011185	Mounting bracket, stainless steel, for M10 x 1.5 thread, thread length 30 mm	78.4 60.3 78.4 60.3 75 19 0 30.1 M10
SMB30SC	3052521	Mounting bracket, PBT black, for sensors with 30 mm thread rotatable	12,7 66.5 07 50.8
SMBAMS30P	3073135	Mounting bracket, stainless steel, for sensors with 30 mm thread	0 6.5 0 25 0 7 22.5 70.5 93