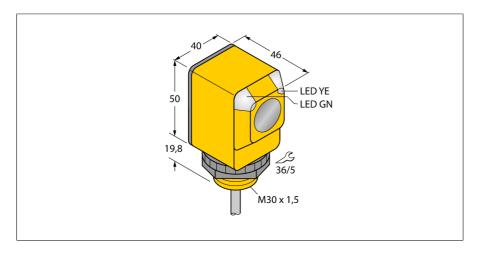


Photoelectric Sensor Opposed Mode Sensor (Receiver) Q40SN6R W/30





Туре	Q40SN6R W/30	
ID	3033910	
Optical data		
Function	Opposed mode sensor	
Operating mode	Receiver	
Range	060000 mm	

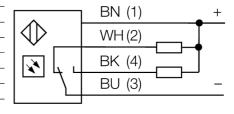
3033910
Opposed mode sensor
Receiver
060000 mm

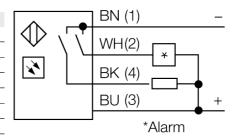
Electrical data	
Operating voltage U _B	1030 VDC
No-load current I _o	≤ 25 mA
Short-circuit protection	yes/Cyclic
Reverse polarity protection	yes
Output function	Connection programmable, NPN
Switching frequency	≤ 160 Hz
Readiness delay	≤ 100 ms
Response time typical	< 3 ms
Overcurrent release	> 220 mA

Mechanical data		
Design	gn Rectangular, Q40	
Dimensions	Ø 30 x 46 x 40.1 x 69.8 mm	
Housing material	Plastic, Thermoplastic material	
Lens	plastic, Polycarbonate	
Electrical connection	Cable, 9 m, PVC	
Number of cores	4	
Core cross-section	ection 0.5 mm²	
Ambient temperature	-40+70 °C	
Protection class	IP67	
Special features	Encapsulated	
Power-on indication LED, Green		
Switching state	state LED, Yellow	
Error indication	LED, green, Flashing	
Excess gain indication	ess gain indication LED	
Alarm display	LED yellow Flashing	

- Cable, 2 m
- Protection class IP67
- Ambient temperature: -40...+70 °C
- Selectable light/dark operation or light operation with alarm function
- Operating voltage: 10...30 VDC
- NPN 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



Tests/approvals	
Approvals	CE, UL, CSA

sensing mode, thus allowing operation over larger distances and under difficult conditions.

Excess gain curve

Excess gain in relation to the distance



Accessories

Type code	Ident no.		Dimension drawing
SMB30A	3032723	Mounting bracket, rectangular, stainless steel, for sensors with 30mm thread	e 30,5 6,3 wide e 6,3 7,5 R 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 61.6 19 9 9 30.1
SMB30SC	3052521	Mounting bracket, PBT black, for sensors with 30 mm thread rotatable	12.7 66.5 0.7 50.8 29
SMBAMS30P	3073135	Mounting bracket, stainless steel, for sensors with 30 mm thread	0 6.5 0 25 0 7 22.5 70.5 93