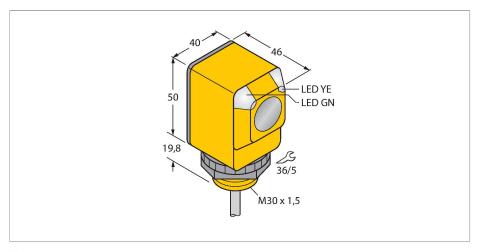


Q40SP6LP W/30 Photoelectric Sensor – Retroreflective Sensor with Polarizing Filter



Technical data

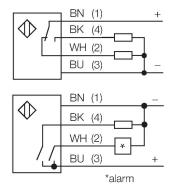
Туре	Q40SP6LP W/30
ID no.	3033899
Optical data	
Function	Retroreflective Sensor
Operating mode	Polarized
Reflector included in delivery	no
Light type	Red polarized
Wavelength	680 nm
Range	506000 mm
Electrical data	
Operating voltage	1030 VDC
No-load current	≤ 25 mA
Short-circuit protection	yes / Cyclic
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 69.8 mm
Housing material	Plastic, Thermoplastic material
Lens	plastic, Polycarbonate
Electrical connection	Cable, 9 m, PVC
Number of cores	4



Features

- Photoelectric sensor
- Retroreflective sensor with polarizing filter
- Selectable light/dark operation or light operation with alarm function
- Operating voltage 10...30 VDC
- ■PNP/NPN switching output
- Connection cable, 9 m
- Protection class IP68/IP69K
- ■Max. range 6m
- Operating voltage: 10...30 VDC
- ■PNP switching output, changeover

Wiring diagram



Functional principle

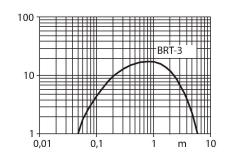
Retro-reflective sensors incorporate emitter and receiver in a single compact housing. The light beam of the emitter is directed towards a reflector which returns the light back to the receiver. An object is detected when it interrupts this beam. Retro-reflective sensors have a high function gain and good contrast performance. Further it is merely required to install and wire a single device.



Technical data

Core cross-section	0.5 mm ²
Ambient temperature	-40+70 °C
Protection class	IP67
Special features	Encapsulated
Power-on indication	LED, Green
Switching state	LED, Yellow
Error indication	LED, green, Flashing
Excess gain indication	LED
Alarm display	LED yellow Flashing
Tests/approvals	
Approvals	CE, UL, CSA

Excess gain curve Excess gain in relation to the distance



Accessories

SMB30A	
Ø 30,5 6,3 wide Ø 6,3 7,5 R 40	Mounting bracket, stainless steel, for thread

Mounting bracket, rectangular, stainless steel, for sensors with 30mm

3032723

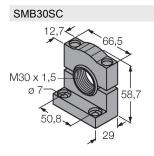
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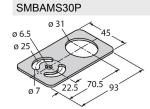
Mounting bracket, stainless steel, for M10 x 1.5 thread, thread length 30 $\,$ mm $\,$

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Mounting bracket, PBT black, for sensors with 30 mm thread, rotatable



Mounting bracket, stainless steel, for sensors with 30 mm thread



Accessories

