

Q40AW3LPQ21

Photoelectric Sensor – Retroreflective Sensor with Polarizing Filter



Features

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

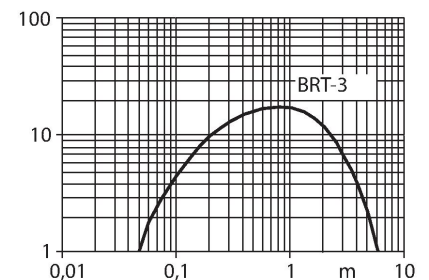
Wiring diagram



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.

Excess gain curve
Excess gain in relation to the distance



Technical data

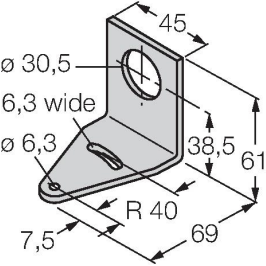
Type	Q40AW3LPQ21
ID	3036766
Optical data	
Function	Retroreflective Sensor
Operating mode	Polarized
Reflector included in delivery	no
Light type	Red polarized
Wavelength	680 nm
Range	50...6000 mm
Electrical data	
Operating voltage	20...250 VAC
AC rated operational current	≤ 200 mA
Output function	Light operation, Relay output
Switching frequency	≤ 40 Hz
Readiness delay	≤ 100 ms
Mechanical data	
Design	Rectangular, Q40
Dimensions	46 x 40.1 x 82.5 mm
Housing material	Plastic, PBT
Lens	plastic, Acrylic
Electrical connection	Connector, M12 × 1
Ambient temperature	-40...+70 °C
Protection class	IP67 IP69K
Special features	Wash down
Power-on indication	LED, Green

Technical data

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

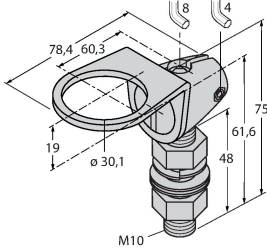
Accessories

SMB30A3032723



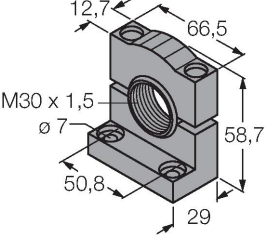
Mounting bracket, rectangular, stainless steel, for sensors with 30mm thread

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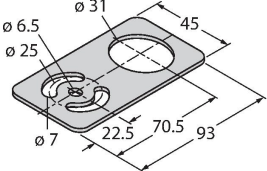
Mounting bracket, stainless steel, for M10 x 1.5 thread, thread length 30 mm

SMB30SC3052521



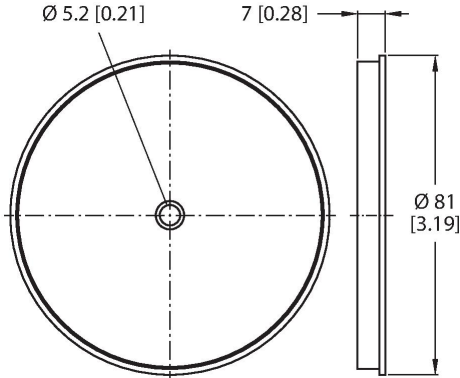
Mounting bracket, PBT black, for sensors with 30 mm thread, rotatable

SMBAMS30P3073135



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

Accessories

Dimension drawing	Type	ID	
	BRT-3	3016164	Round reflector, reflection coefficient 1.0, material acrylic, ambient temperature -20...+60 °C