

Q40AW3FF600Q4

Photoelectric Sensor – Diffuse Mode Sensor with Fixed-Field Background Suppression



Features

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

Wiring diagram

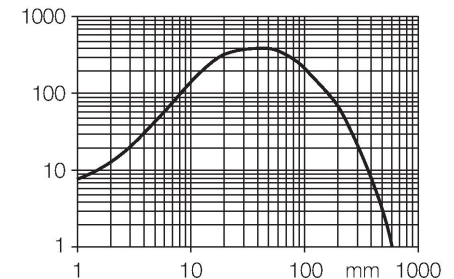


Functional principle

The emitter and receiver are incorporated in a single housing. The light reflection of the target is detected and triggers the sensor to switch. Thus the switching distance largely depends on the reflectivity of the target.

Excess gain curve

Excess gain in relation to the distance



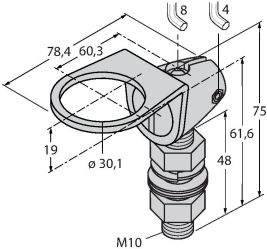
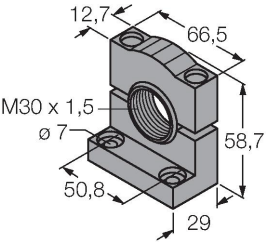
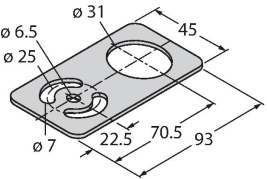
Technical data

Type	Q40AW3FF600Q4
ID	3058238
Optical data	
Function	Proximity switch
Operating mode	Background suppression, non-adjustable
Light type	IR
Wavelength	880 nm
Range	0...600 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
Switching state	LED, Yellow

Technical data

Tests/approvals	
MTTF	448 years acc. to SN 29500 (Ed. 99) 40 °C
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