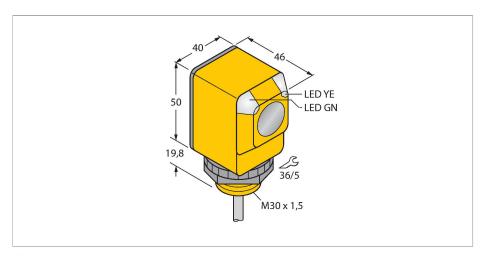
Q40AW3LP Photoelectric Sensor – Retroreflective Sensor with Polarizing Filter



Technical data

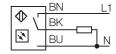
Туре	Q40AW3LP
ID	3032362
Optical data	
Function	Retroreflective Sensor
Operating mode	Polarized
Reflector included in delivery	no
Light type	IR
Wavelength	950 nm
Range	506000 mm
Electrical data	
Operating voltage	20250 VAC
AC rated operational current	≤ 200 mA
Output function	Light operation, Relay output
Switching frequency	≤ 40 Hz
Readiness delay	≤ 100 ms
Response time typical	< 16 ms
Mechanical data	
Design	Rectangular, Q40
Dimensions	Ø 30 x 50 x 46 x 40 mm
Housing material	Plastic, Thermoplastic material
Lens	Lexan, Polycarbonate
Electrical connection	Cable, 2 m, PVC
Number of cores	3
Core cross-section	0.5 mm ²
Ambient temperature	-40+70 °C
Protection class	IP67



Features

- Cable, 2 m
- ■Protection class IP67
- ■Ambient temperature: -40...+70 °C

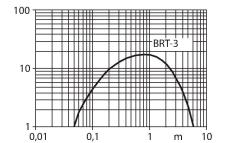
Wiring diagram



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

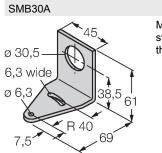
Excess gain in relation to the distance



Technical data

Encapsulated
LED, Green
LED, Yellow
LED
CE, UL, CSA

Accessories



3032723 Mounting bracket, rectangular, stainless steel, for sensors with 30mm thread

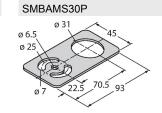


3011185 Mounting bracket, stainless steel, for M10 x 1.5 thread, thread length 30



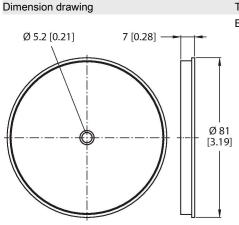
Mounting bracket, PBT black, for sensors with 30 mm thread, rotatable

3052521



3073135 Mounting bracket, stainless steel, for sensors with 30 mm thread

Accessories



Type ID BRT-3 3016164

Round reflector, reflection coefficient 1.0, material acrylic, ambient temperature -20...+60 °C