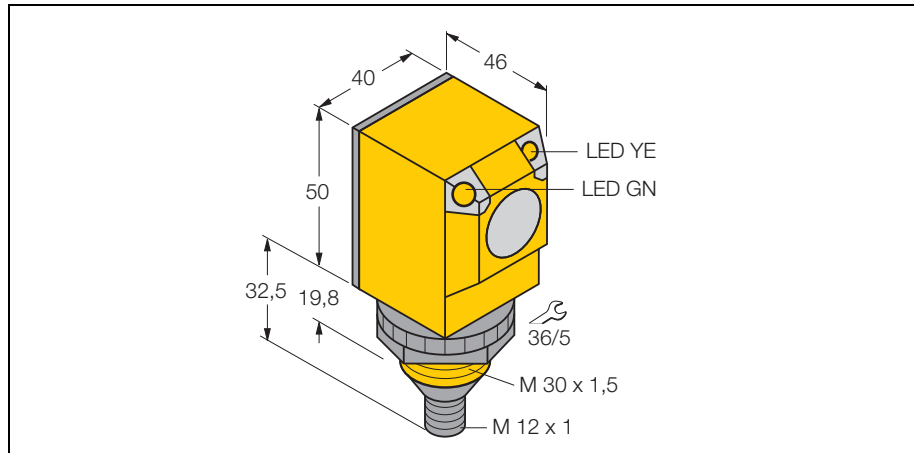


photoelectric sensor

diffuse mode sensor with background suppression

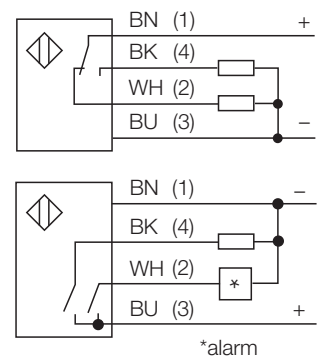
Q40SP6FF200Q



Type	Q40SP6FF200Q
Ident-No.	3033392
Operating mode	diffuse mode sensor with fixed-field background suppression
Light type	IR
Wavelength	880 nm
Range	0... 200 mm
Ambient temperature	-40...+ 70°C
Operating voltage	10... 30 VDC
DC rated operational current	≤ 150 mA
No-load current I_0	≤ 35 mA
Output function	connection programmable, PNP
Switching frequency	≤ 160Hz
Readiness delay	≤ 100 ms
Overcurrent release	>220 mA
Housing	rectangular, Q40
Dimensions	46x 40x 82.5mm
Housing material	Plastic, PBT
Lens	plastic, acrylic
Electrical connection	Connectors, M12 x 1
Protection class	IP68 / IP69K
Operating voltage	LED green
Switching state	LED yellow
Error indication	LED green flashing
Alarm display	LED yellow flashing

- selectable light or dark operation or light operation with alarm function
- M12 x 1 connector
- degree of protection IP68 - IP69K
- Operating voltage 10...30 VDC
- pnp switching output
- degree of protection IP69K

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

