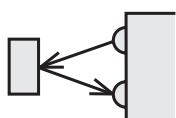


Direct Detection Photoelectric Sensor



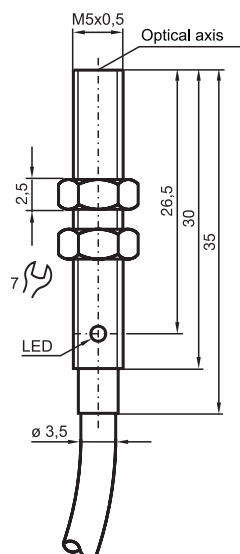
OBT50-5GM35-□*1
OBT50-5GM45-□*1 -V3



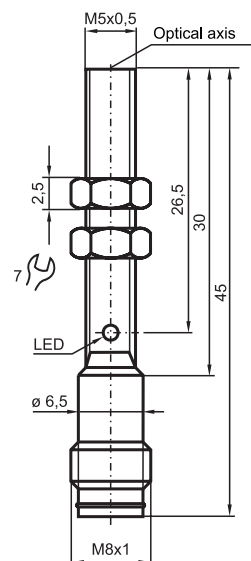
50 mm

Features

- Extremely small size
- Fully self-contained, no amplifier requested
- Long sensing range
- Voltage 10 VDC ... 30 VDC, output current 100 mA, circuit proof
- Optical outlet material: glass, easy to clean
- Vacuum potted, no residual air inside the switch, protection class IP 67



Cable design

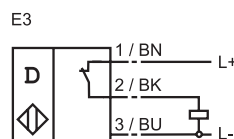
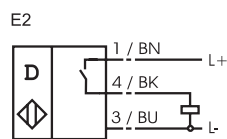
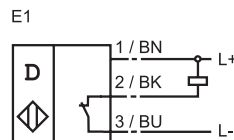
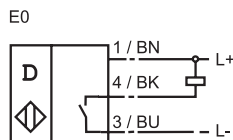


Plug design M8 x 1 (-V3)

Cable sockets, mounting aids etc. see "Accessories" section

e. g. cable sockets: V3-GM-5M-PUR (straight)
V3-WM-E2-5M-PUR (angled)

Electrical connection



*1 - electrical connection

Technical data

Model number

OBT50-5GM35-E2
OBT50-5GM35-E0
OBT50-5GM35-E1
OBT50-5GM35-E3
OBT50-5GM45-E2-V3
OBT50-5GM45-E0-V3
OBT50-5GM45-E1-V3
OBT50-5GM45-E3-V3

Sensing range 50 mm
Reference card size Standard white card 200 mm x 200 mm
Light source IR light 880 nm
Switch frequency 250 Hz
ON delay 3 msec
Readiness delay 20 msec
Distance hysteresis 10 % typ.

Electrical data

Rated operational voltage 10 VDC ... 30 VDC, ripple 20 % U_B
Rated operational current 100 mA circuit/overload proof
Current consumption 15 mA
Ambient light limit
Sunlight $\leq 10\,000$ Lux
Halogen light $\leq 3\,000$ Lux
Indicators LED yellow
LED yellow flashing
Switch status Function reserve
Operating temperature 273 Kelvin ... 328 Kelvin (0 °C ... +55 °C)

Mechanical data

Protection class to IEN 60 529 IP 67
Allowable shock- and
Vibration resistance IEC 947-5-2/7.4
Connection type 2 m cable, 3 x 0.14 mm² PVC grey / V3 plug connector
Housing Brass
Material front lens Glass
Weight 38 g
Conforms to EN 60 947-5-2

Characteristic response curve

Permissible distance (offset) between optical axis and object.

