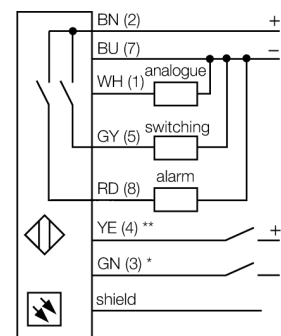


**Photoelectric sensor
laser measuring system
LG5B65PU**



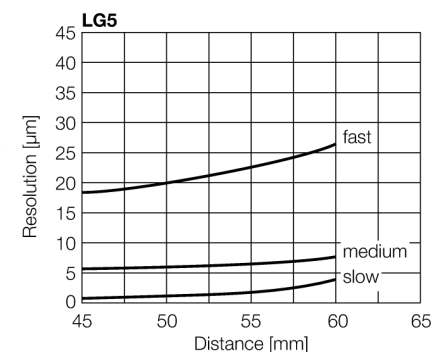
- Connection cable, 2 m
- Measuring range 45...60 mm
- Focal point at 53 mm
- Operating voltage 12...30 VDC
- Analog output 0...10 V
- Indication of signal intensity
- Alarm output
- slow, medium and fast operation mode adjustable

Wiring diagram



Functional principle

The function principle of the L-GAGE is based on optical triangulation. The emitter and the optics create a light source that is directed towards a target. The target reflects the laser beam back to the receiver lens of the sensor, from where it then falls onto the position sensitive device (PSD) as the receiving element. The target's distance from the receiver determines the angle at which the light meets the receiver element. The integrated microprocessor uses this angle to analyse the target position and to create a corresponding output signal.



| | |
|--------------------------------|---|
| Type code | LG5B65PU |
| Ident no. | 3057568 |
| Operating mode | Diffuse mode laser sensor (triangulation) |
| Light type | red |
| Wavelength | 670 nm |
| Focal distance | 53 mm |
| Laser class | △ 2 |
| Repeatability | 0.003 mm |
| Range | 45...60 mm |
| Ambient temperature | -10...+50 °C |
| Operating voltage | 12...30VDC |
| Residual ripple | < 10 % U _s |
| DC rated operational current | ≤ 100 mA |
| No-load current I ₀ | ≤ 50 mA |
| Short-circuit protection | yes |
| Reverse polarity protection | yes |
| Output function | NO contact, PNP/analog output |
| Voltage output | 0...10V |
| Load resistance | ≥ 2500 Ω |
| Switching frequency | ≤ 500 Hz |
| Readiness delay | ≤ 1.25 s |
| Design | rectangular, LG5 |
| Dimensions | 82.3 x 20.2 x 55.3 mm |
| Housing material | metal, ZN, black lacquer |
| Lens | plastic, acrylic |
| Connection | cable, PVC |
| Cable length | 2 m |
| Cable cross section | 8 x 0.34 mm ² |
| Protection class | IP67 |
| Power-on indication | LED green |
| Switching state | LED yellow |

**Photoelectric sensor
laser measuring system
LG5B65PU**

TURCK

Industrial
Automation

Accessories

| Type code | Ident no. | Description | Dimension drawing |
|-----------|-----------|--|-------------------|
| SMBLG | 3055815 | Montagewinkel, Edelstahl 304, für Sensoren der Reihe LG5 und LG10 | |
| SMBLGA | 3055906 | Montagewinkel, Edelstahl 304, für Sensoren der Reihe LG5 und LG10, mit Verstellerschrauben für präzisere Montage | |