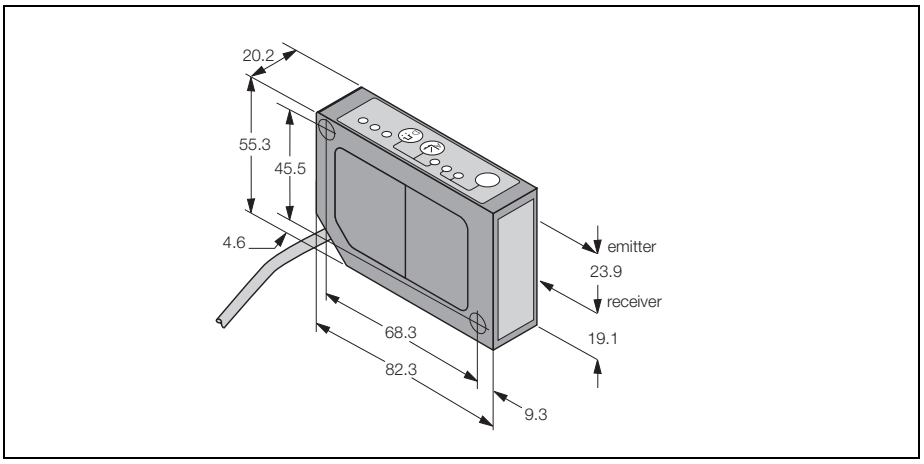
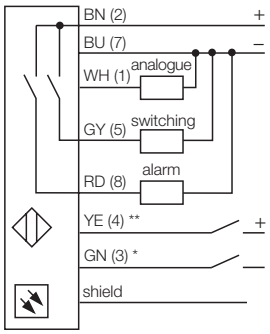
Photoelectric sensor
laser measuring system
LG5B65PI



Type	LG5B65PI
Ident-No.	3055966
Operating mode	Laser measuring system
Type of light	red
Wave length	670 nm
Focal distance	53 mm
Laser-class	2 (EN 60825, IEC 60825)
Sensing range [mm]	45... 60 mm
Operating temperature	-10 ...+ 50 °C
Rated operational voltage (DC) U_B	12... 30 VDC
Rated operational current (DC) I_e	≤ 100 mA
No-load current I_0	≤ 50 mA
Short-circuit protection	yes, cyclic
Reverse polarity protection	yes
Output function	normally open, PNP/analogue output
Current output	4... 20 mA
Switching frequency	≤ 500 Hz
Time delay before availability	≤ 1,25 s
Housing style	rectangular
Dimensions	82,3 x 20,2 x 55,3 mm
Housing material	metal, ZN, schwarz lackiert
Lens	Kunststoff, Acryl
Wiring	cable
Cable length	2 m
Cable cross section	8 x 0,34 mm^2
Degree of protection	IP67
Supply voltage indication	LED green
Switching status indication	LED yellow

- **switching and measuring range are independently adjustable**
- **remote teach**
- **cable, 2 m**
- **signal strength indication**
- **slow, medium and fast operation mode adjustable**

Wiring diagram



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 receiver 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.

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