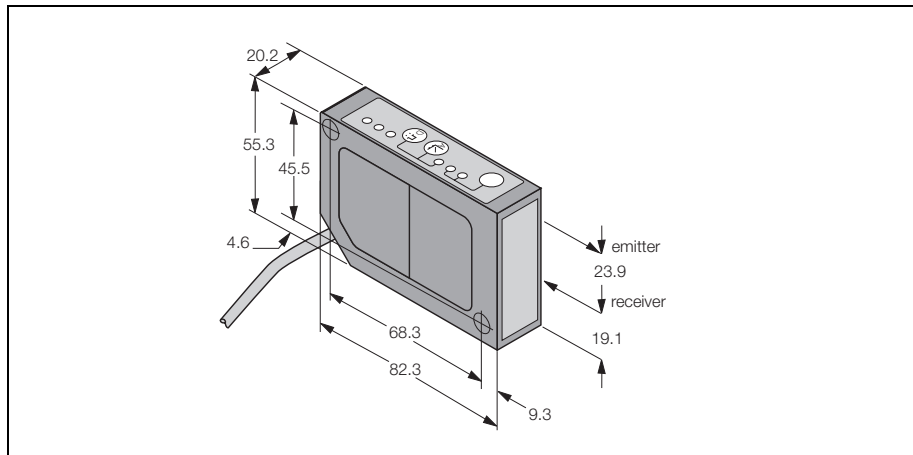
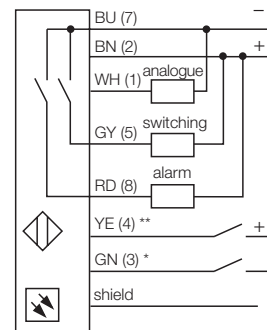


## Photoelectric sensor laser measuring system LG5A65NI



- 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.

|                                                        |                                    |
|--------------------------------------------------------|------------------------------------|
| <b>Type</b>                                            | LG5A65NI                           |
| Ident-No.                                              | 3054086                            |
| <b>Operating mode</b>                                  | Laser measuring system             |
| Type of light                                          | red                                |
| Wave length                                            | 670 nm                             |
| Focal distance                                         | 70 mm                              |
| Laser-class                                            | 2 (EN 60825, IEC 60825)            |
| Sensing range [mm]                                     | 45... 60 mm                        |
| Operating temperature                                  | -10 ...+ 50 °C                     |
| <b>Rated operational voltage (DC) <math>U_B</math></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, NPN/analogue output |
| Current output                                         | 4... 20 mA                         |
| Switching frequency                                    | ≤ 500 Hz                           |
| Time delay before availability                         | ≤ 1,25 s                           |
| <b>Housing style</b>                                   | 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 <sup>2</sup>           |
| Degree of protection                                   | IP67                               |
| <b>Supply voltage indication</b>                       | LED green                          |
| Switching status indication                            | LED yellow                         |