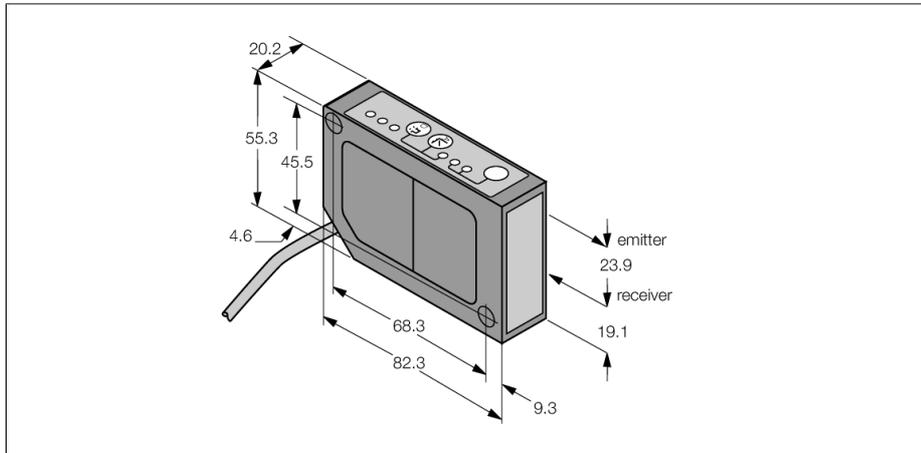


photoelectric sensor
laser measuring system
LG5A65PI

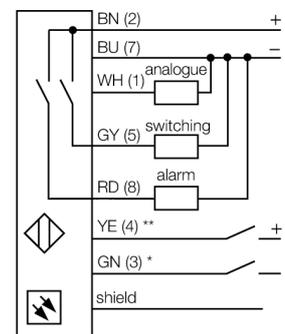
TURCK

Industrial
Automation



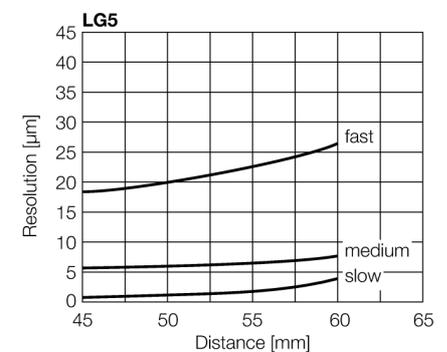
- measuring range 45...60 mm
- focal point at 70 mm
- connection cable, 2 m
- Operating voltage 12...30 VDC
- analogue output 4...20 mA
- signal strength indication
- Alarm output
- slow, medium and fast operation mode adjustable

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	LG5A65PI
Ident-No.	3054089
Operating mode	Diffuse mode laser sensor (triangulation)
Light type	red
Wavelength	670 nm
Focal distance	70 mm
Laser class	2 (EN 60825, IEC 60825)
Repeatability	0.003 mm
Range	45...60 mm
Ambient temperature	-10...+50 °C
Operating voltage	12...30VDC
DC rated operational current	≤ 100 mA
No-load current I ₀	≤ 50 mA
Output function	NO contact, PNP/analog output
Current output	4...20mA
Load resistance	≤ 1000 Ω
Switching frequency	≤ 500 Hz
Readiness delay	≤ 1.25 s
Design	rectangular
Dimensions	82.3 mm x 20.2 mm x 55.3 mm
Housing material	Metal, ZN, black lacquer
Lens	plastic, acrylic
Connection	cable
Cable length	2 m
Cable cross section	8 x 0.34 mm ²
Protection class	IP67
Operating voltage	LED green
Switching state	LED yellow