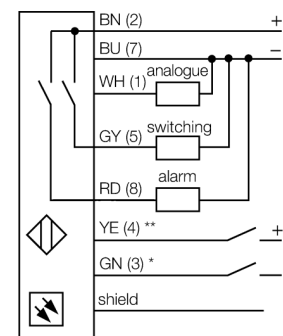


**Photoelectric sensor  
laser measuring system  
LG10A65PI**



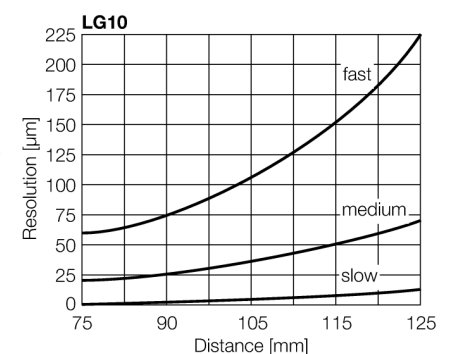
- Connection cable, 2 m
- Measuring range 75...125 mm
- Focal point at 180 mm
- Operating voltage 12...30 VDC
- Analog output 4...20 mA
- Indication of signal intensity
- Alarm output
- slow, medium and fast operation mode adjustable

**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.



<b>Type code</b>	LG10A65PI
Ident no.	3054095
<b>Operating mode</b>	Diffuse mode laser sensor (triangulation)
Light type	red
Wavelength	670 nm
Focal distance	180 mm
Laser class	△ 2
Repeatability	0.01 mm
Range	75...125 mm
Ambient temperature	-10...+50 °C
<b>Operating voltage</b>	12...30VDC
Residual ripple	< 10 % U <sub>s</sub>
DC rated operational current	≤ 100 mA
No-load current I <sub>0</sub>	≤ 50 mA
Short-circuit protection	yes
Reverse polarity protection	yes
Output function	NO contact, PNP/analog output
Current output	4...20mA
Load resistance	≤ 1000 Ω
Switching frequency	≤ 500 Hz
Readiness delay	≤ 1.25 s
<b>Design</b>	rectangular, LG10
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 <sup>2</sup>
Protection class	IP67
<b>Power-on indication</b>	LED green
Switching state	LED yellow

**Photoelectric sensor  
laser measuring system  
LG10A65PI**

**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	