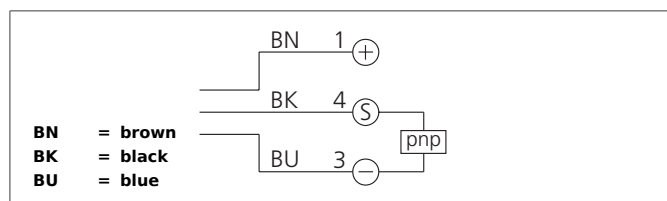


LGL 081 P3K-TSSL

Laser Angled Light Barrier

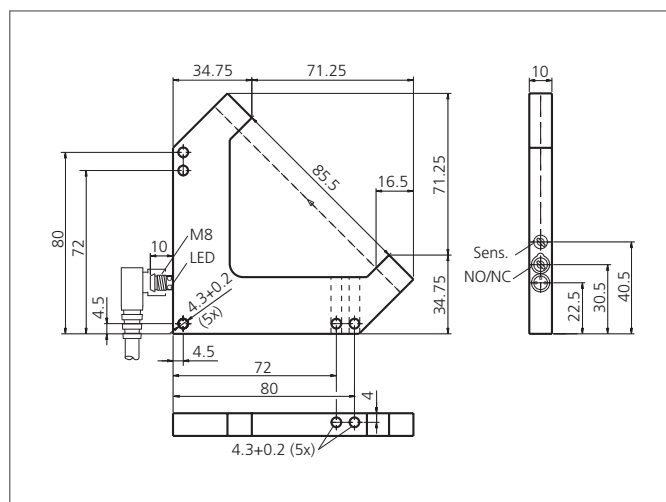


- Very high resolution
- Optical axis approachable in x-, y- and z-direction
- Visible laser spot
- High operating frequency
- Light/dark switching
- Laser class 1
- Bright ring LED
- 5-year warranty



Safety instructions

Inproper use may result in hazardous radiation exposure. Pay attention to accident prevention rules and laser class. The instruments are not to be used for safety applications, in particular applications in which safety of persons depends on proper operation of the instruments. These instruments shall exclusively be used by qualified personnel.



TECHNICAL INFORMATION (typ.)		+20°C, 24V DC
Operating principle		Optical
Evaluation		digital
Size		106 x 106 x 10 mm (Dimensions)
Design		Angle
Branch length inside		80/80 mm
Emitted light		Red light laser, 650 nm, clocked
Laser class		1 (IEC 60825-1)
Service voltage		10 ... 35 V DC (Supply Class 2)
No-load current		< 30 mA
Operating distance		85 mm (optical axis)
Resolution		0,05 mm
Sensitivity adjustment		potentiometer
Switching output		pnp, 200 mA, NO/NC, switchable
Switching hysteresis		< 20 µm
Shock-/vibration load		10 ... 55 Hz / 1,0 mm / 30 g
Voltage drop		< 2,8 V
Switching frequency		3000 Hz
Reproducibility		10 µm
Laser power		< 100 µW
Ambient temperature, operation		+5 ... +45 °C
Ambient light immunity		100 kLx
Insulation voltage endurance		250 V
Protection class		IP 67

LGL 081 P3K-TSSL

Laser Angled Light Barrier



TECHNICAL INFORMATION (typ.)		+20°C, 24V DC
Protection degree		III, operation on protective low voltage
Casing material		Aluminium black anodized
Connection		Connector, M8, 3-poled
Connecting cable		TK ...
Mountable side by side		Yes