

## **Model Number**

## LA61/LK61-Z/31/115

Thru-beam sensor with fixed cable

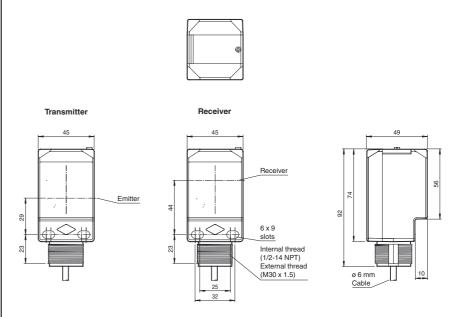
### **Features**

- Cost-optimized series for standard tasks in a special design
- · Compact design
- Wide range of mounting options thanks to cubic housing design with M30 thread
- 360° high visibility LEDs
- Programmable ON-delay, OFF-delay, and One-shot timers
- · Version for universal voltages
- Relay output

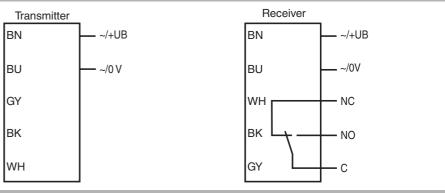
# **Product information**

The Series 61 sensor family is a comprehensive product line, offering five sensing modes. Each sensor is equipped with four LEDs that are highly visible from all directions, indicating Power-On, target presence and marginal excess gain. The widely recognized, polycarbonate housing provides a IP67 protection degree rating. Color-coded labels are clearly printed on the housing to easily identify the sensing mode. DC models offer a 4-in-1 output while AC/DC models have a SPDT relay output rated to 3 A. All versions come standard with an integral multifunction timer, sensitivity adjustment and Light-ON/Dark-ON switch. Series 61 sensors are cross-talk protected and have a high degree of resistance to ambient lighting. Each sensor can be mounted via front and rear slots, rear dovetail guide or M30 x 1.5 mounting base. Additionally, cabled sensor models provide 1/2" - 14 NPT internal threads for use with flexible conduit.

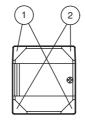
## **Dimensions**

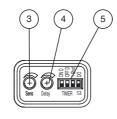


# **Electrical connection**



# Indicators/operating means





1	Operating display	green
2	Signal display	yellow
3	Sensing range adjuster	
4	Time adjuster	
5	DIP-switches	

#### **Technical data** System components Emitter LA61/115 LK61-Z/31/115 General specifications Effective detection range 0 60 m Threshold detection range 85 m Light source IRED Light type modulated infrared light, 850 nm Diameter of the light spot approx. 1600 mm at a distance of 60 m Angle of divergence Emitter: 1.5 °, Receiver: 1.5 ° Ambient light limit 5000 Lux; according EN 60947-5-2 Indicators/operating means Operation indicator 2 LEDs green Function indicator 2 LEDs yellow Receiver: receiver LED yellow, lights up when light beam is free, flashes when falling short of the stability control; OFF when light beam is interrupted Control elements Light/Dark switch Detection range adjuster Control elements Control elements Time adjuster (0 ... 10 s) **Electrical specifications** Operating voltage $\mathsf{U}_\mathsf{B}$ 24 ... 240 V AC 12 ... 240 V DC No-load supply current $\leq$ 35 mA Protection class II , rated voltage $\leq$ 250 V AC with pollution degree 1-2 according to IEC 60664-1 Output circuit basis insulation of input circuit according to EN 50178, rated insulation voltage 240 V AC Power consumption Output light/dark on, switchable Switching type Signal output Relay, 1 alternator max. 240 V AC/DC Switching voltage Switching current max. 3 A Switching power DC: max. 150 W AC: max. 750 VA 20 Hz Switching frequency f Response time ≤ 25 ms Timer function DIP-switch for selection of operating modes **Ambient conditions** Ambient temperature -40 ... 55 °C (-40 ... 131 °F) -40 ... 70 °C (-40 ... 158 °F) Storage temperature Mechanical specifications Degree of protection Connection fixed cable Material Housing PC (glass-fiber-reinforced Makrolon) Optical face **PMMA** Emitter: 150 g Receiver: 150 g Tightening torque, fastening screws < 2 Nm Compliance with standards and directives Standard conformity Product standard EN 60947-5-2:2007 IEC 60947-5-2:2007 Approvals and certificates UL approva cULus CCC approval Certified by China Compulsory Certification (CCC)

### **Accessories**

## MPZB01

Mounting bracket with vertical slots

### MPZB02

Mounting bracket with circular slots

### MPZB06

Ball and Swivel Mounting Bracket

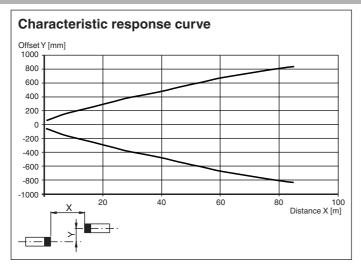
### MPZB07

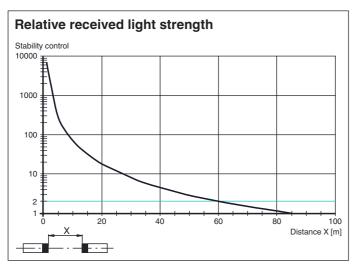
Ball and Swivel Vertical Mounting Plate

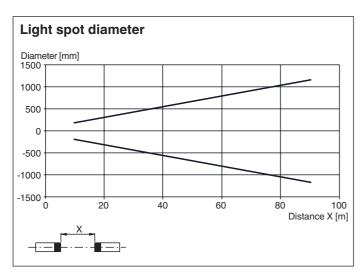
Other suitable accessories can be found at www.pepperl-fuchs.com

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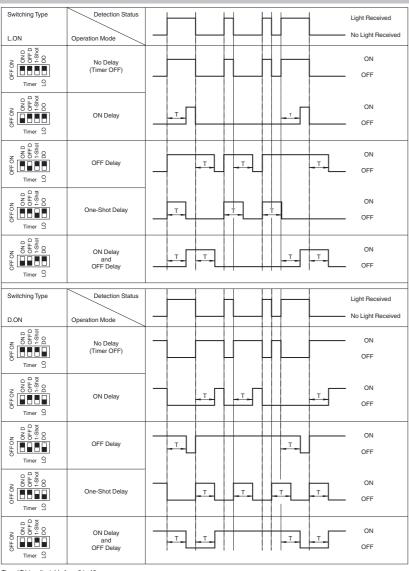
# **Curves/Diagrams**







www.pepperl-fuchs.com



Time (T) is adjustable from 0 to 10 s