## **Model Number**

## LA61/LK61-Z/31/115

Thru-beam sensor with fixed cable

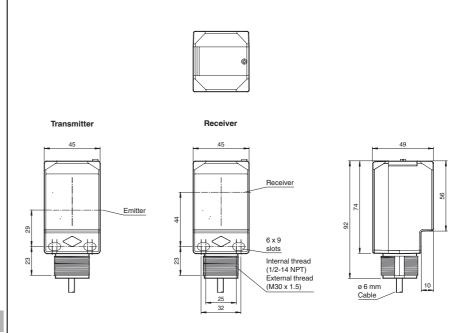
## **Features**

- 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

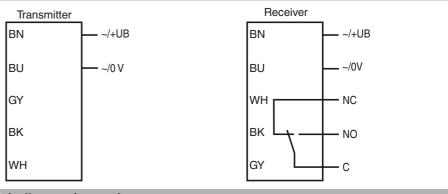
## **Product information**

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.

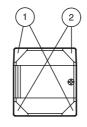
## **Dimensions**

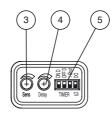


## **Electrical connection**



# Indicators/operating means





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

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### **Technical data** System components Emitter LA61/115 LK61-Z/31/115 Receiver 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 ° Optical face frontal 5000 Lux; according EN 60947-5-2 Ambient light limit Indicators/operating means Operation indicator 2 LEDs yellow Receiver: receiver LED yellow, lights up when light beam is free, flashes when falling short of the stability cont-Function indicator rol; OFF when light beam is interrupted Control elements Light-on/dark-on changeover switch Control elements Sensing range adjuster Control elements Time adjuster (0 ... 10 s) **Electrical specifications** 24 ... 240 V AC Operating voltage $\mathsf{U}_\mathsf{B}$ 12 ... 240 V DC No-load supply current ≤ 35 mA $I_0$ II, rated voltage ≤ 250 V AC with pollution degree 1-2 according Protection class to IEC 60664-1 Output circuit basis insulation of input circuit according to EN 50178, rated insulation voltage 240 V AC Power consumption $P_0$ ≤ 2 VA per device Output Switching type light/dark on, switchable Signal output 1 SPDT relay Switching voltage max. 250 V AC/DC Switching current max. 3 A DC: max. 150 W AC: max. 750 VA Switching power Switching frequency 20 Hz Response time < 25 ms DIP-switch for selection of operating modes Timer function **Ambient conditions** Ambient temperature -40 ... 55 °C (-40 ... 131 °F) Storage temperature -40 ... 70 °C (-40 ... 158 °F) **Mechanical specifications** Degree of protection **IP67** Connection 2 m fixed cable Material Housing PC (glass-fiber-reinforced Makrolon) Optical face approx. 240 g per device Mass Tightening torque, fastening screws < 2 Nm Cable length 2 m Compliance with standards and directives Directive conformity EMC Directive 2004/108/EC FN 60947-5-2:2007+A1:2012 Standard conformity Product standard EN 60947-5-2:2007 IEC 60947-5-2:2007 EN 50178, UL 508 Standards Approvals and certificates EAC conformity TR CU 020/2011 TR CU 004/2011 **UL** approval cULus Listed, Type 1 enclosure For overcurrent protection, install a fuse with a rated current of max. 5 A and min. 240 V AC/DC CCC approval Certified by China Compulsory Certification (CCC)

## **Accessories**

## MPZB01

Mounting bracket with vertical slots

### MPZB02

Mounting bracket with circular slots

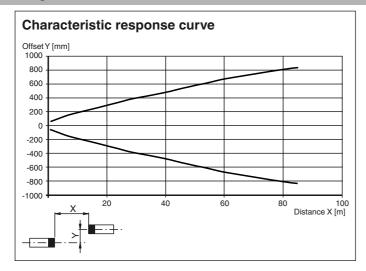
## MPZB06

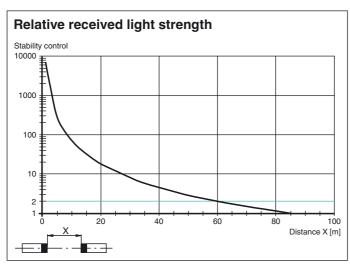
Ball and Swivel Mounting Bracket

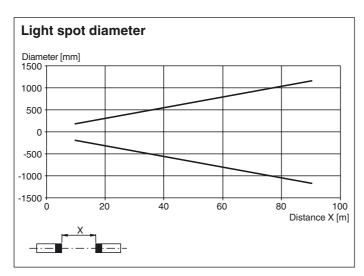
### MPZB07

Ball and Swivel Vertical Mounting Plate

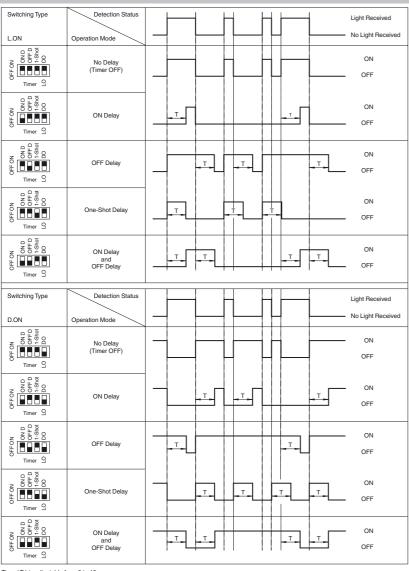
Other suitable accessories can be found at www.pepperl-fuchs.com







## **Timer Functions**



Time (T) is adjustable from 0 to 10 s