









# **Model Number**

#### RLK61-LL-IR-Z/31/115

Fiber optic sensor with fixed cable

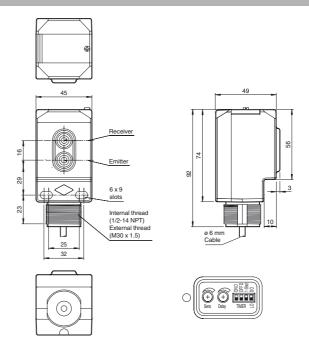
### **Features**

- 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
- Includes universal fiber adapter kit

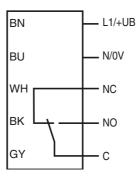
### **Product information**

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.

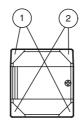
### **Dimensions**

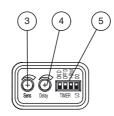


### **Electrical connection**



# 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					
General specifications					
Detection range		Dependent on fibers selected			
Light source		IRED			
Light type		modulated infrared light, 850 nm			
Ambient light limit		5000 Lux ; according EN 60947-5-2			
Indicators/operating means					
Operating display		2 LEDs green			
Function display		2 LEDs yellow ON: object inside the scanning range OFF: object outside the scanning range			
Controls		Light/Dark switch			
Controls		Detection range adjuster			
Controls		Time adjuster ( 0 10 s )			
Electrical specifications					
Operating voltage	$U_B$	24 240 V AC 12 240 V DC			
No-load supply current	I <sub>0</sub>	≤ 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	$P_0$	≤ 2 VA			
Output					
Switching type		light/dark on, switchable			
Signal output		Relay, Form C			
Switching voltage		max. 250 V AC/DC			
Switching current		max. 3 A			
Switching power		DC: max. 50 W AC: max. 500 VA			
Switching frequency	f	20 Hz			
Response time		≤ 25 ms			
Timer function		DIP-switch for selection of operating modes			
Ambient conditions					
Ambient temperature		-40 55 °C (-40 131 °F)			
Storage temperature		-40 70 °C (-40 158 °F)			
Mechanical specifications					
Protection degree		IP67			
Connection		fixed cable			
Material					
Housing		PC (Polycarbonate)			
Optical face		PMMA			
Mass		240 g			
Compliance with standards and directives					
Standard conformity					
Product standard		EN 60947-5-2:2007 IEC 60947-5-2:2007			
Approvals and certificates					
UL approval		cULus			
CCC approval		Certified by China Compulsory Certification (CCC)			
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# **Accessories**

## **MPGKITC**

Fiber cable adapter kit

## MPZB01

Mounting bracket with vertical slots

# MPZB02

Mounting bracket with circular slots

## MPZB06

Ball and Swivel Mounting Bracket

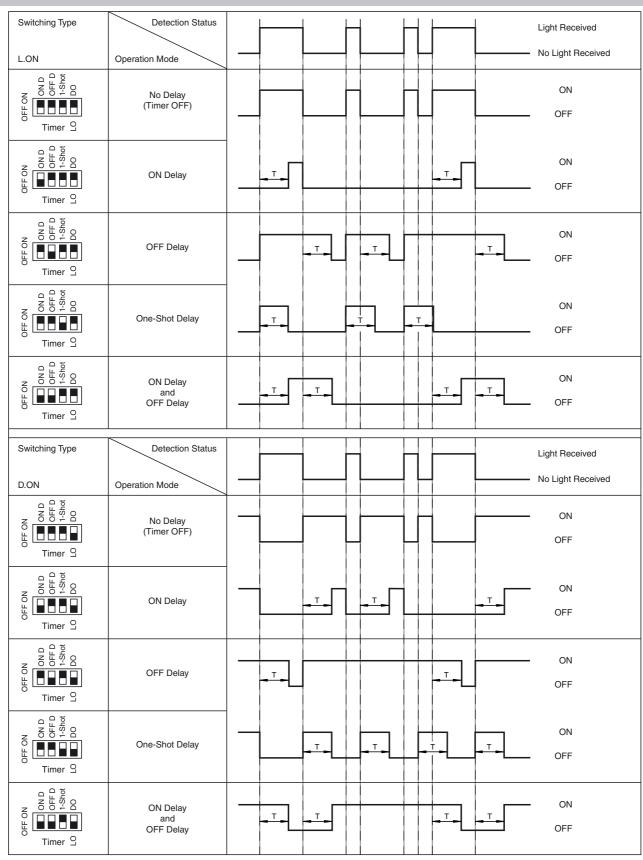
## MPZB07

Ball and Swivel Vertical Mounting Plate

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

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### **Timer Functions**



DIP-Switch position —

Time (T) is adjustable from 0 to 10 sec

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