



Model Number

RLK61-LL-IR-Z/31/115

Fiber optic sensor with fixed cable

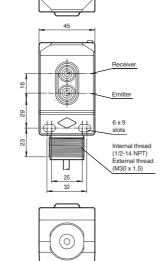
Features

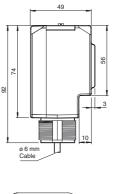
- Cost-optimized series for standard • tasks in a special design
- Compact design
- Wide range of mounting options • thanks to cubic housing design with M30 thread
- 360° high visibility LEDs ٠
- Programmable ON-delay, OFF-delay, and One-shot timers
- Version for universal voltages
- Relay output
- Includes 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.

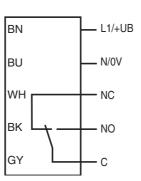
Dimensions



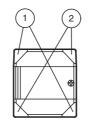


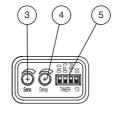


Electrical connection



Indicators/operating means





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

Refer to "General Notes Relating to Pepperl+Fuchs Product Information" Pepperl+Fuchs Group www.pepperl-fuchs.com

Germany: +49 621 776 4411 fa-info@de.pepperl-fuchs.com

Singapore: +65 6779 9091 fa-info@sg.pepperl-fuchs.com



RLK61-LL-IR-Z/31/115

Technical data

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General specifications		
Detection range		Dependent on fibers selected
Light source		IRED
Light type		modulated infrared light , 850
Ambient light limit		5000 Lux ; according EN 609
Indicators/operating means		
Operation indicator		2 LEDs green
Function indicator		2 LEDs yellow ON: object inside the scannin OFF: object outside the scan
Control elements		Light/Dark switch
Control elements		Detection range adjuster
Control elements		Time adjuster (0 10 s)
Electrical specifications		
Operating voltage	U _B	24 240 V AC 12 240 V DC
No-load supply current	I ₀	≤ 35 mA
Protection class		II , rated voltage \leq 250 V AC v to IEC 60664-1 Output circuit according to EN 50178, rated
Power consumption	P ₀	\leq 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
Switching frequency	f	20 Hz
Response time		≤ 25 ms
Timer function		DIP-switch for selection of op
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		fixed cable
Material		
Housing		PC (Polycarbonate)
Optical face		PMMA
Mass		240 g
Tightening torque, fastening screw	/S	≤ 2 Nm
Compliance with standards and ves	directi-	
Standard conformity		
Product standard		EN 60947-5-2:2007 IEC 60947-5-2:2007
Approvals and certificates		

Approvals and certificates

UL approval CCC approval bd 0 nm 947-5-2

ing range nning range

with pollution degree 1-2 according it basis insulation of input circuit d insulation voltage 240 V AC

0 VA perating modes

cULus Certified by China Compulsory Certification (CCC) Accessories

FE-BTS6S-5 Glass fiber optic - diffuse

FE-BTS6S-10 Glass fiber optic - diffuse

FE-BTS6M-3 Glass fiber optic - diffuse

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

FE-BTS6S-3 Glass fiber optic - diffuse

FE-BTSAS6S-3 Glass fiber optic - diffuse

FE-BTSAS6M-3 Glass fiber optic - diffuse

FE-BNSRA5S-3 Glass fiber optic - diffuse

FE-BRL7S-3 Glass fiber optic - diffuse

FE-BRL7M-3 Glass fiber optic - diffuse

FE-BNSRA5M-3 Glass fiber optic - diffuse

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

Refer to "General Notes Relating to Pepperl+Fuchs Product Information" Pepperl+Fuchs Group USA: +1 330 486 0001

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Timer Functions

Switching Type	Detection Status							Light Received	
L.ON	Operation Mode		1				4	No Light Receive	ed
Timer O	No Delay (Timer OFF)							ON OFF	
NO LLO Timer O	ON Delay		<u>-</u>					ON OFF	
NO LLO Timer O	OFF Delay			- ^T -		- ^T -		ON T OFF	
NO 40 Timer 9	One-Shot Delay		╺╶╴╸		-	-		ON OFF	
O O O O O O O O O O O O O O O O O O O	ON Delay and OFF Delay		- ^T -	- ^T -			- T-	ON T T OFF	
Switching Type	Detection Status							Light Received	
D.ON	Operation Mode							No Light Receive	ed
NO 440 NO 440 Timer O	No Delay (Timer OFF)							ON OFF	
OFFON OFFON	ON Delay					-		OFF	
OFF ON D OFF D ON D ON D OFF D ON D OFF D ON D ON D ON D ON D ON D ON D ON D ON	OFF Delay		┍╴╴╸					ON OFF	
NO LLO ZO ZO LLO ZO ZO LLO ZO ZO LLO ZO ZO Z	One-Shot Delay	 		-		⊸ ⊺ ►		ON T OFF	
O LE O O O U C C C C C C C C C C C C C C C C	ON Delay and OFF Delay							ON OFF	
IP-Switch position - (T) is adjustable fro	•								

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