



Model Number

RLK61-LL-IR-Z/31/115

Fiber optic sensor with fixed cable

Features

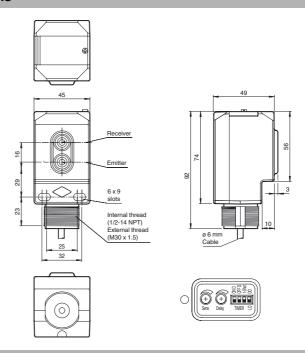
CE

- 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

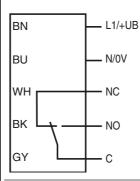
Product information

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.

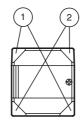
Dimensions

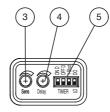


Electrical connection



Indicators/operating means





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

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		
Operation indicator		2 LEDs green
Function indicator		2 LEDs yellow lights up when receiving the light beam; flashes
		when falling short of the stability control; OFF: object outside th sensing range
Control elements		Light-on/dark-on changeover switch
Control elements		Sensing 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 _O	≤ 35 mA
Protection class	Ū	II, rated voltage ≤ 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		1 SPDT relay
Switching voltage		max. 250 V AC/DC
Switching current		max. 3 A
Switching power		DC: max. 150 W AC: max. 750 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		,
Degree of protection		IP67
Connection		2 m fixed cable , 5-wire
Material		2 III IIACU GUDIC , 5 WIIC
Housing		PC (Polycarbonate)
Optical face		PMMA
Mass		approx. 240 g
Tightening torque, fastening screv	NC	≤2 Nm
Cable length	143	2 m
Compliance with standards and ves	directi	
Directive conformity		
EMC Directive 2004/108/EC		EN 60947-5-2:2007+A1:2012
Standard conformity		
Product standard		EN 60947-5-2:2007 IEC 60947-5-2:2007
Standards		EN 50178, UL 508
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 or max. 5 A and min. 240 V AC/DC
CCC approval		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

DIP-Switch position —

Time (T) is adjustable from 0 to 10 sec