

Model Number

RLK61-LL-IR-Z/31/135

Fiber optic sensor with V95 quick disconnect

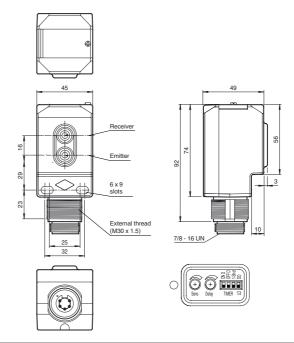
Features

- 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

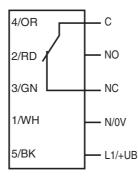
Product information

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.

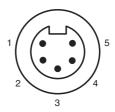
Dimensions



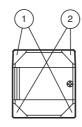
Electrical connection

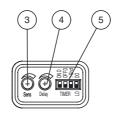


Pinout



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		LEDs yellow ON: object inside the scanning range OFF: object outside the scanning range
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	J	II , rated voltage ≤ 250 V AC with pollution degree 1-2 accord 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		
Degree of protection		IP67
Connection		V95 quick disconnect
Material		
Housing		PC (Polycarbonate)
Optical face		PMMA
Mass		130 g
Tightening torque, fastening scre	ews	≤ 2 Nm
Compliance with standards an ves	d directi	-
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)

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

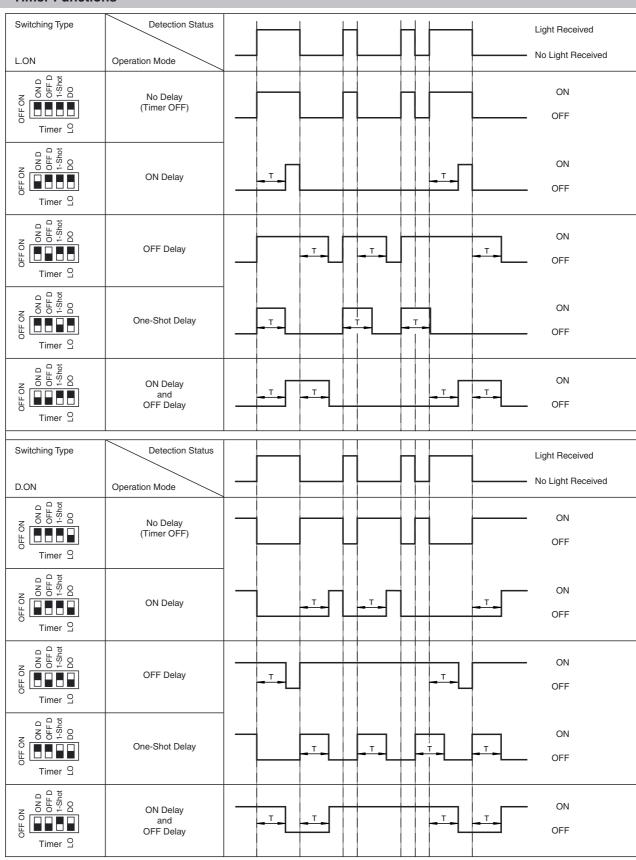
Glass fiber optic - diffuse

FE-BNSRA5M-3

Glass fiber optic - diffuse

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

Timer Functions



DIP-Switch position —

Time (T) is adjustable from 0 to 10 sec