

## **Model Number**

#### RLK61-LL-IR-Z/31/135

Fiber optic sensor with V95 quick disconnect

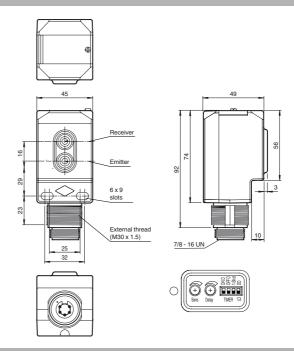
## **Features**

- 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

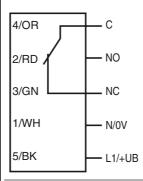
#### **Product information**

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.

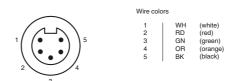
# **Dimensions**



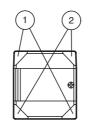
# **Electrical connection**

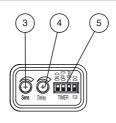


## **Pinout**



# 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		2 LEDs yellow lights up when receiving the light beam; flashes when falling short of the stability control; OFF: object outside the 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 <sub>B</sub>	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		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		V95 guick disconnect
Material		
Housing		PC (Polycarbonate)
Optical face		PMMA
Mass		approx. 140 g
Tightening torque, fastening scre	ws	≤2Nm
Compliance with standards and ves	l 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 of 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

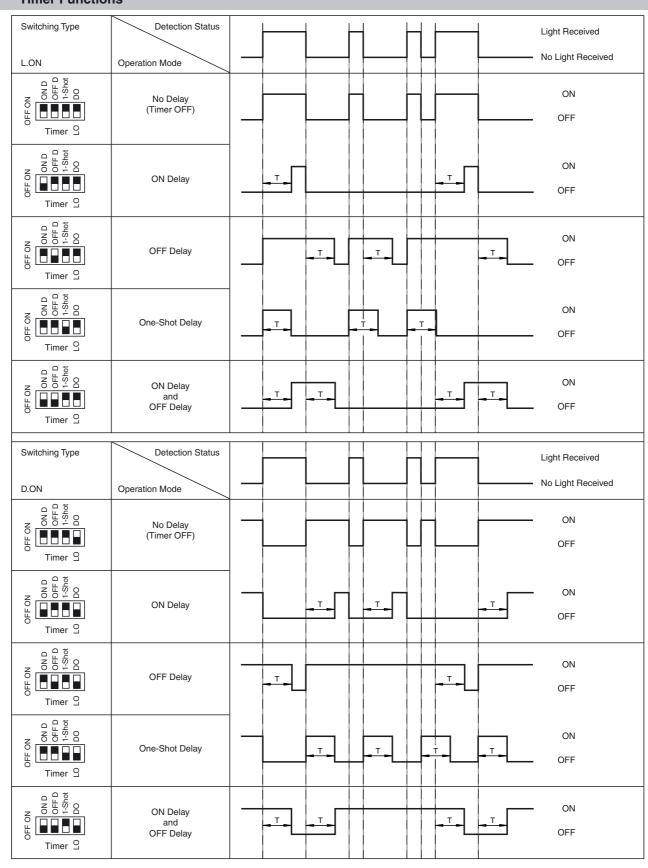
Glass fiber optic - diffuse

# FE-BNSRA5M-3

Glass fiber optic - diffuse

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

# **Timer Functions**



Time (T) is adjustable from 0 to 10 sec