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Model Number

RLK61-LL-IR-Z/31/135

Fiber optic sensor with V95 quick disconnect

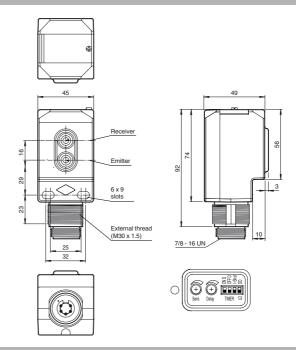
Features

- 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

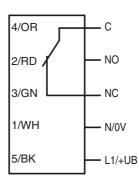
Product information

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.

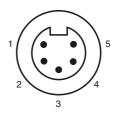
Dimensions



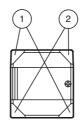
Electrical connection

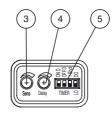


Pinout



Indicators/operating means





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

Technical data

	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 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	l ₀	≤ 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				
	Degree of protection		IP67		
	Connection		V95 quick disconnect		
	Material				
	Housing		PC (Polycarbonate)		
	Optical face		PMMA		
	Mass		130 g		
	Tightening torque, fastening screw	rs .	≤ 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					
	UL approval		cULus		
	CCC approval		Certified by China Compulsory Certification (CCC)		
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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

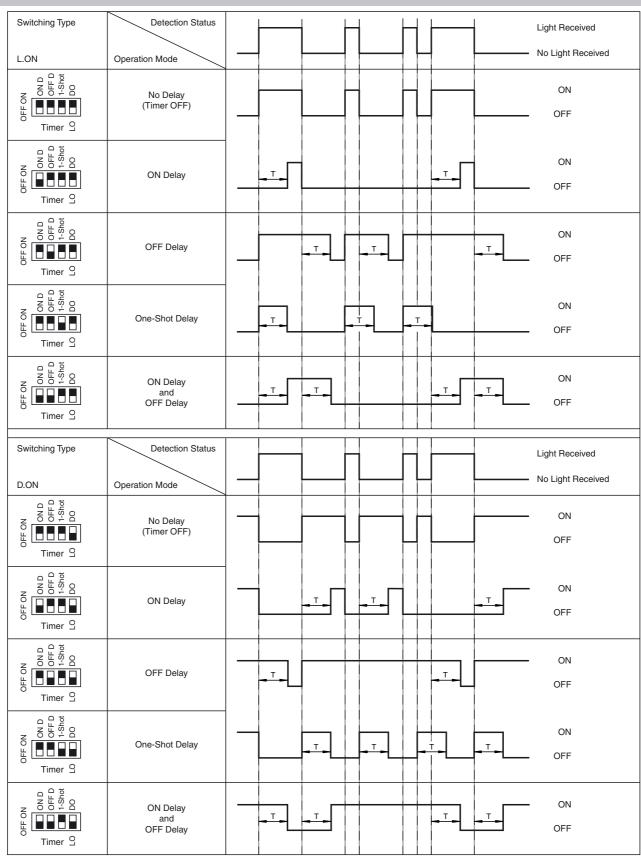
Glass fiber optic - diffuse

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