

CE c US

Model Number

RL61-LL-IR-Z/115/136

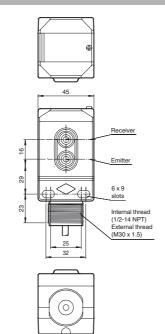
Fiber optic sensor with fixed cable

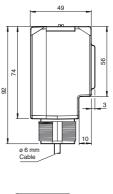
Features

- 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
- 4-in-1 output (push-pull)
- Version with infrared light
- Includes universal fiber adapter kit

Product information

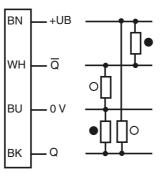
The Series 61 sensor family is a comprehensive product line, offering five sensing modes. Each sensor is equipped with four LEDs that are highly visible from all directions, indicating Power-On, target presence and marginal excess gain. The widely recognized, polycarbonate housing provides a IP67 protection 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.





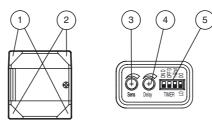


Electrical connection





Indicators/operating means



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

eng.xml

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Technical data

Output

Switching type Signal output

Switching voltage Switching current Voltage drop Switching frequency Response time Timer function Ambient conditions Ambient temperature Storage temperature **Mechanical specifications** Degree of protection Connection Material

Housing Optical face Mass Tightening torque, fastening screws Compliance with standards and directives

Standard conformity Product standard

Approvals and certificates

UL approval

CCC approval

Dependent on fibers selected IRED modulated infrared light, 850 nm 5000 Lux ; according EN 60947-5-2

2 LEDs green 2 LEDs yellow ON: object inside the sensing range OFF: object outside the sensing range Light/Dark switch Detection range adjuster Time adjuster (0 ... 50 ms)

10 ... 30 V DC

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10 % ≤ 35 mA 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

light/dark on, switchable
2 push-pull (4 in 1) outputs, short-circuit protected, reverse pola- rity protected
max. 30 V DC
max. 100 mA
≤ 2.5 V
500 Hz
≤ 1 ms
DIP-switch for selection of operating modes
-40 55 °C (-40 131 °F)
-40 70 °C (-40 158 °F)

IP67 fixed cable PC (Polycarbonate) PMMA 150 g

≤2 Nm

cULus

EN 60947-5-2:2007 IEC 60947-5-2:2007

CCC approval / marking not required for products rated ≤36 V

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-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

FE-BTS6S-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	 -					-		 No Light Received
NO 40 NO 40 Timer O	No Delay (Timer OFF)								ON OFF
C C C C C C C C C C C C C C C C C C C	ON Delay	 							ON — OFF
NO LLO LLO LLO LLO LLO LLO LLO LLO LLO LL	OFF Delay		- T -		- ^T -			- T -	ON — OFF
NO L L L L L L L L L L L L L L L L L L L	One-Shot Delay	 -⊤-		-	-	_ т 	-		ON — OFF
NO LAGO Timer O	ON Delay and OFF Delay	 	-				-	- T -	ON — OFF
Switching Type	Detection Status								Light Received
D.ON	Operation Mode						4		 No Light Received
NO L Timer 9	No Delay (Timer OFF)								– ON OFF
NO LLO Timer 9	ON Delay				<u>-</u>			-T	- ON OFF
NO LLO Timer 9	OFF Delay	 - ⊤►					- ^T -		- ON OFF
NO LA CONTRACTOR STATE	One-Shot Delay		→ ^T →		- T-			- T-	ON — OFF
NO LEGO NO LEG	ON Delay and OFF Delay	 → T ►	- T -				- ^T -	- T -	- ON OFF
IP-Switch position									

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