

HIGH-PERFORMANCE PHOTOELECTRIC SENSORS





MULTIPLE OPTIONS IN AN INDUSTRY-STANDARD HOUSING



"4-IN-1" OUTPUT

Reduce your inventory by having one sensor replace four with Pepperl+Fuchs' 4-in-1 output. The 4-in-1 technology offers a normally open and a normally closed output, which will automatically detect the connected load. A single sensor can operate in NPN normally open, NPN normally closed, PNP normally open, or PNP normally closed. No external wiring to select the mode. No sinking or sourcing confusion.





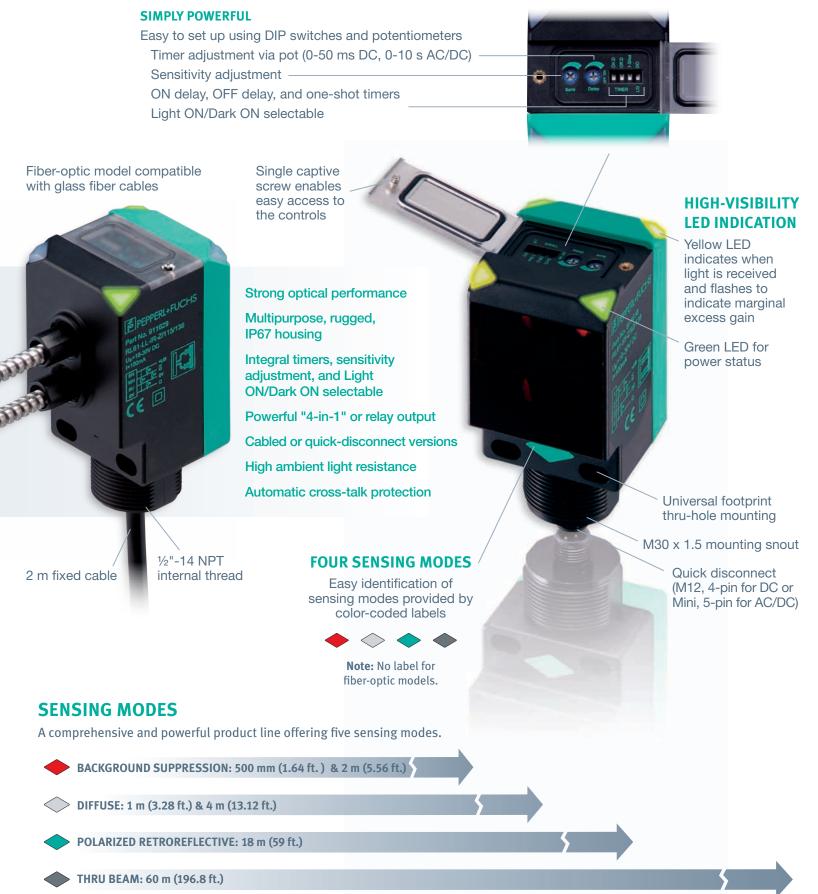
UNIVERSAL POWER SUPPLY

With both DC and AC/DC models, whatever your application, RL(K) 61 has you covered. These flexible sensors offer a built-in SPDT relay in AC/DC models and a 4-in-1 output in DC models.

ACCESSORIES

Simplify your installation with Pepperl+Fuchs' accessories. From simple mounting solutions to cordsets and reflectors, our broad range of accessories will complement and extend the capability of your Series 61 photoelectric sensor.





COMMON SPECIFICATIONS

Reverse Polarity Protection

Current/Power Consumption

Voltage Drop

Supply Voltage

Voltage Ripple

Response Time

Light Source

Standards

Protection (IEC)

Temperature Range

Housing Material

Ambient Light Resistance

Switching Frequency

Load Current/Electrical Contact Rating

Short Circuit And Overload Protection

									No Label
			Background Suppression Mode	Background Suppression Mode	Diffuse Mode	Long-Range Diffuse Mode	Polarized Retroreflective Mode	Thru-Beam Mode	Fiber-Optic
SENSING RANGE			500 mm	2 m	0 – 1 m	0 – 4 m	0 – 18 m	0 – 60 m	Dependent on cable used
DC Models	2-meter cable	4-in-1 Output	RL61-8-H-500-IR-Z/115/136	RL61-8-H-2000-IR-Z/115/136	RL61-8-1000-Z/115/136	RL61-8-4000-Z/115/136	RL61-55-Z/115/136	LV61-Z/115/136	RL61-LL-IR-Z/115/136
		Thru-Beam Transmitter	-	-	-	-	-	LD61/115	-
4.	Quick disconnect M12, 4-pin (V1)	4-in-1 Output	RL61-8-H-500-IR-Z/92/136	RL61-8-H-2000-IR-Z/92/136	RL61-8-1000-Z/92/136	RL61-8-4000-Z/92/136	RL61-55-Z/92/136	LV61-Z/92/136	RL61-LL-IR-Z/92/136
		Thru-Beam Transmitter	-	-	-	-	-	LD61/92	-
AC/DC Models	2-meter cable	Relay Output	RLK61-8-H-500-IR-Z/31/115	RLK61-8-H-2000-IR-Z/31/115	RLK61-8-1000-Z/31/115	RLK61-8-4000-Z/31/115	RLK61-55-Z/31/115	LK61-Z/31/115	RLK61-LL-IR-Z/31/115
		Thru-Beam Transmitter	-	-	-	-	-	LA61/115	-
	Mini 5-pin (V95)	Relay Output	RLK61-8-H-500-IR-Z/31/135	RLK61-8-H-2000-IR-Z/31/135	RLK61-8-1000-Z/31/135	RLK61-8-4000-Z/31/135	RLK61-55-Z/31/135	LK61-Z/31/135	RLK61-LL-IR-Z/31/135
		Thru-Beam Transmitter	-	-	-	-	-	LA61/135	-
Sensitivity Adjustment		Yes	Yes	Yes	Yes	Yes	Yes	Yes	
LEDs			Yes (4)	Yes (4)	Yes (4)	Yes (4)	Yes (4)	Yes: transmitter (2), receiver (4)	Yes (4)
Light Spot Diameter			≈ 6 mm at 500 mm range	≈ 24 mm at 2 m range	\approx 17 mm at 1 m range	≈ 45 mm at 4 m range	≈ 350 mm at 18 m range	≈ 840 mm at 20 m range	Fiber dependent
Light Beam Angle			≈ 0.7°	≈ 0.7°	≈ 1°	≈ 0.7°	≈ 1.1°	≈ 2.4°	Fiber dependent

DC Models

100 mA max.

≤ 2.5 VDC

Yes

10-30 VDC

10%

≤ 40 mA

≤ 1 ms 500 Hz **AC/DC Models**

3 A max.

24-240 VAC/12-240 VDC

 \leq 2 VA

≤ 25 ms

20 Hz

Infrared or Visible Red (Retroreflective) LED

EN 60947-5-2

≤ 40,000 lux

-22 °F to +131 °F

-40 °F to +158 °F

Plastic

PRODUCT DIMENSION	S-OPTIC		DIP-switch y adjuster g range adjuster	LED-Operate Display	•	LED-Switch Status TOP VIEW LED-Operate Display
SIDE VIEW	45 52 23 32 32 32 32 1	FRONT VIEW Receiver Emitter	SIDE VIEW	56 56 56 56 56 56 56 56 56 56 56 56 56 5	45 24.69 32.1	Emitter 5.5 x 9.2 slots Internal thread (1/2-14NPT) External thread (M30 x 1.5)
ø 6 mm Cable	7/8-16UN CONNECTION	OPTIONS	M12 x 1			BOTTOM VIEW Dimensions (mm)

ELECTRICAL CONNECTIONS

LD61 - Transmitter

LA61 - Transmitter

Option/135

DC MODELS

AC/DC MODELS



FACTORY AUTOMATION -SENSING YOUR NEEDS



Pepperl+Fuchs sets the standard in quality and innovative technology for the world of automation. Our expertise, dedication, and heritage of innovation have driven us to develop the largest and most versatile line of industrial sensor technologies and interface components in the world. With our global presence, reliable service, and flexible production facilities, Pepperl+Fuchs delivers complete solutions for your automation requirements—wherever you need us.



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