

Diffuse mode sensor

RLK61-8-4000-Z/31/135

- 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

Diffuse mode sensor



Function

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 $\frac{1}{2}$ " - 14 NPT internal threads for use with flexible conduit.

Application

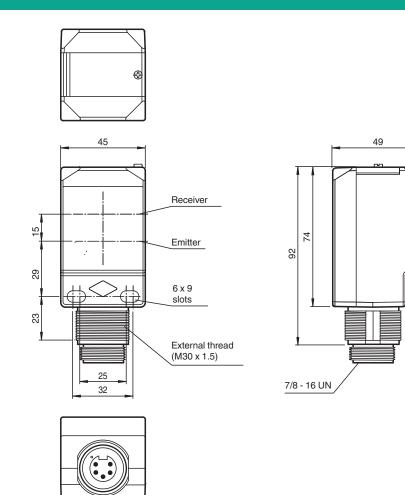
- · Object tracking in material handling, and the packaging sector
- Material flow monitoring
- · Bin occupancy check in storage technology
- Fine positioning in high-bay warehouses
- · Presence and height monitoring on pallet conveyors
- · Single-beam protection for automatic industrial gates and elevator doors
- · Protection at automatic gates

Refer to "General Notes Relating to Pepperl+Fuchs Product Information"

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Dimensions



Technical Data

General specifications		
Detection range		0 4000 mm adjustable
Adjustment range		270 4000 mm
Reference target		standard white 200 mm x 200 mm
Light source		IRED
Light type		modulated infrared light , 850 nm
Diameter of the light spot		approx. 45 mm at a distance of 4000 mm
Opening angle		0.7 °
Optical face		frontal
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 _B	24 240 V AC 12 240 V DC
No-load supply current	I 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

Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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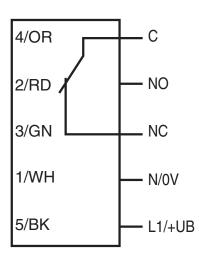
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Housing depth48.6 mmDegree of protectionIP67Connection5-pin V95 connector (7/8"-16 UN 2A)MaterialHousingPC (Polycarbonate)Optical facePMMAMassapprox. 140 g	Housing width		45 mm
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Optical face PMMA Mass approx. 140 g	Material		
Mass approx. 140 g	Housing		PC (Polycarbonate)
	Optical face		PMMA
Tightening torque, fastening screws max. 2 Nm	Mass		approx. 140 g
	Tightening torque, fastening screws		max. 2 Nm

 Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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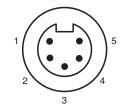
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Connection Assignment



The relay-functions "NC" and "NO" bear on the switching mode "Light-ON". This complies to the default setting of the light/dark switch, located on top of the housing (factory setting).

Connection Assignment



Wire colors

Assembly

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

Refer to "General Notes Relating to Pepperl+Fuchs Product Information"

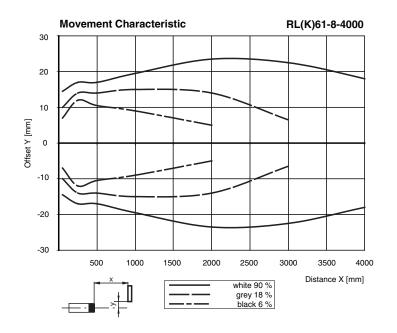
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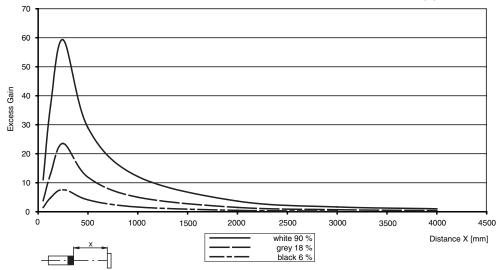
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Characteristic Curve



Excess Gain Vs Sensing Distance

RL(K)61-8-4000



Application

Refer to "General Notes Relating to Pepperl+Fuchs Product Information"

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Timer Functions

Switching Type	Detection Status			Н		Light Received
L.ON	Operation Mode			J		No Light Received
OGFON OFFO ON D OFFO ON D O O O O D O O D O D O D O D O D O D D O D D D O D D D D O D	No Delay (Timer OFF)					ON
OCH ON A CON CON CON CON CON CON CON CON CON CON	ON Delay		-			ON OFF
OFF ON DON D D D D D D D D D D D D D D D D D D D	OFF Delay		- T -			ON T OFF
a d d d d d d d d d d d d d d d d d d d	One-Shot Delay		-	┝ ┝ ┍ ╷		ON OFF
NO 440 Timer 97	ON Delay and OFF Delay					ON T OFF
Switching Type	Detection Status					Light Received
D.ON	Operation Mode			┦┞───	┦┞┦	No Light Received
NO 40 Timer O	No Delay (Timer OFF)					ON OFF
Q L L ON Q L L O Q L D Q L L O Q L D Q L D	ON Delay			╽╺╌╸		ON OFF
NO 40 Timer 9	OFF Delay	T	-			ON OFF
OFF ON DOF ON DO	One-Shot Delay			┙		ON T OFF
OFF ON D D F ON D D F ON D D OFF	ON Delay and OFF Delay	T	-↓			ON OFF

Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

Accessories

0	MPZB01	Mounting bracket with vertical slots
	MPZB02	Mounting bracket with circular slots
	MPZB07	Ball and Swivel Vertical Mounting Plate
÷	MPZB06	Ball and Swivel Mounting Bracket
	V95-G-YE2M-STOOW	Female cordset, 7/8", 5-pin, STOOW cable
	V95-W-YE2M-STOOW	Female cordset, 7/8", 5-pin, STOOW cable

 Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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Additional Information

Timer Functions

Detection Status		Light Received
Operation Mode		No Light Received
No Delay (Timer OFF)		ON OFF
ON Delay		ON OFF
OFF Delay		ON OFF
One-Shot Delay		ON OFF
ON Delay and OFF Delay		ON OFF
Detection Status Operation Mode		Light Received No Light Received
No Delay (Timer OFF)		ON OFF
ON Delay		ON OFF
OFF Delay		ON OFF
One-Shot Delay		ON OFF
ON Delay and OFF Delay		OFF
-	No Delay (Timer OFF) ON Delay OFF Delay OR-Shot Delay and OFF Delay ON Delay and OFF Delay Detection Status Operation Mode No Delay (Timer OFF) ON Delay (DN Delay One-Shot Delay One-Shot Delay One-Shot Delay	No Dalay (Timer OFF) Image: Construction of the second o

DIP-Switch position --

Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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Time (T) is adjustable from 0 to 10 sec

Adjustment Instructions

Intended use:

The diffuse mode sensor contains the emitter and receiver in a single housing. The light from transmitter is reflected back from the target object and is evaluated by the receiver. The sensing range depends on the object color and finish. With dark or very small objects, the sensing range is reduced.

Mounting instructions

The sensor can be mounted using the through-holes or with a mounting bracket (not included with delivery).

The base surface must be flat to avoid distorting the sensor housing during mounting. It is advisable to secure the bolts and screws with washers so that the sensor does not become misaligned.

Adjustment Instructions:

Adjust the sensor on the background. If the yellow LED illuminates, reduce the sensing range using the potentiometer until the yellow LED turns off.

Object detection:

Move the target into the light beam. Position the light spot on the object. If the object is detected, the yellow LED lights up. If it does not light up, further adjust the sensing range with the potentiometer until the yellow LED lights up.

Cleaning:

We recommend that you clean the optical interfaces and check all connections at regular intervals.