Model Number

LD61/LV61-Z/115/136

Thru-beam sensor with fixed cable

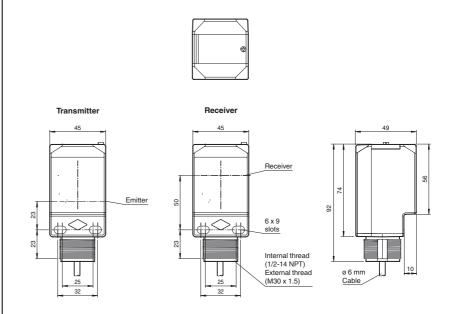
Features

- 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
- Programmable ON-delay, OFF-delay, and One-shot timers
- 4-in-1 output (push-pull)

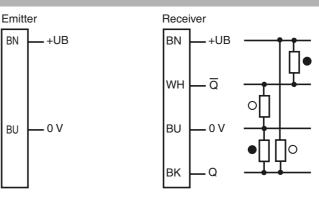
Product information

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

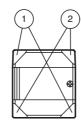


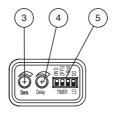
Electrical connection



- O = Light on
- = Dark on

Indicators/operating means





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

Thru-beam sensor

Technical data			
System components			
Emitter		LD61/115	
Receiver		LV61-Z/115/136	
General specifications			
Effective detection range		0 60 m	
Threshold detection range		85 m	
Light source		IRED	
Light type Diameter of the light spot Angle of divergence		modulated infrared light , 850 nm	
		approx. 1600 mm at a distance of 60 m	
		Emitter: 1.5 °, Receiver: 1.5 °	
Ambient light limit		5000 Lux; according EN 60947-5-2	
Indicators/operating means			
Operation indicator		2 LEDs green	
Function indicator		2 LEDs yellow Receiver: receiver LED yellow, lights up when light beam is free, flashes when falling short of the stability cont rol; OFF when light beam is interrupted	
Control elements		Light/Dark switch	
Control elements		Detection range adjuster	
Control elements		Time adjuster (0 50 ms)	
Electrical specifications			
Operating voltage U	J _B	10 30 V DC	
Ripple		10 %	
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	
Output			
Switching type		light/dark on, switchable	
Signal output		2 push-pull (4 in 1) outputs, short-circuit protected, reverse polarity protected	
Switching voltage		max. 30 V DC	
Switching current		max. 100 mA	
Voltage drop L	J _d	≤ 2.5 V	
Switching frequency f		500 Hz	
Response time		≤1 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		fixed cable	
Material			
Housing		PC (glass-fiber-reinforced Makrolon)	
Optical face		PMMA	
Mass		Emitter: 150 g Receiver: 150 g	
Tightening torque, fastening screws		< 2 Nm	
Compliance with standards and divuses	recti-		
Standard conformity			
Product standard		EN 60947-5-2:2007 IEC 60947-5-2:2007	
Approvals and certificates			
UL approval		cULus	
CCC approval		CCC approval / marking not required for products rated \leq 36 V	

Accessories

MPZB01

Mounting bracket with vertical slots

MPZB02

Mounting bracket with circular slots

MPZB06

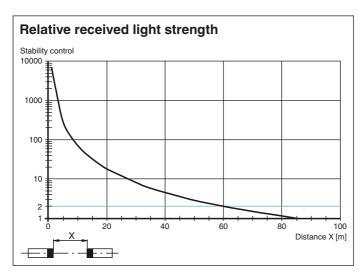
Ball and Swivel Mounting Bracket

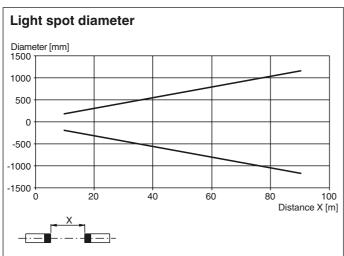
MPZB07

Ball and Swivel Vertical Mounting Plate

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

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www.pepperl-fuchs.com

Timer Function	ns	
Switching Type	Detection Status	Light Received
L.ON	Operation Mode	No Light Received
OFFON D OFFO D ON D ON D ON D ON D ON D ON D ON D O	No Delay (Timer OFF)	ON OFF
Q D D D D D D D D D D D D D D D D D D D	ON Delay	ON OFF
OFF ON D CHEON TIME OF THE OFF ON D CHEON TO CHEON TO CHEON THE OFF OFF OFF OFF OFF OFF OFF OFF OFF OF	OFF Delay	ON OFF
OFFON DATE OF THE PROPERTY OF	One-Shot Delay	ON OFF
OFF O DANS O DAN	ON Delay and OFF Delay	ON OFF
Switching Type	Detection Status	Light Received
D.ON	Operation Mode	No Light Received
NO 440 Timer 9	No Delay (Timer OFF)	ON OFF
OFFON OFFON ON OFFON ON OFFON ON OFFON ON O	ON Delay	ON OFF
O H D D D D D D D D D D D D D D D D D D	OFF Delay	ON OFF
OFF ON OF	One-Shot Delay	ON OFF
OFF ON DATE OF TO SET OF T	ON Delay and OFF Delay	ON OFF
DIP-Switch position —		

DIP-Switch position —

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