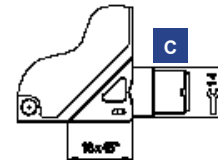
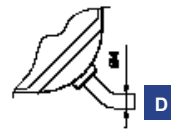
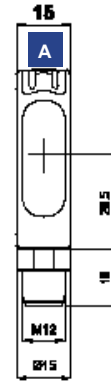
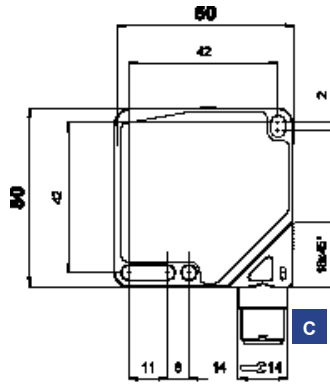


# L-G/F THROUGH BEAM WITH RED LASER EMISSION

The high operating distance, typical of the emitter and receiver system, is notably increased thanks to the use of visible red laser emission. The laser beam can be easily aligned and offers excellent detection resolution of even small objects. The class 1 laser emission, according to EN 60825-1, guarantees maximum safety for the operators in all applications.

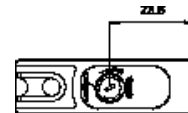


## DIMENSIONS

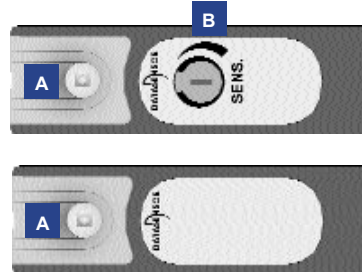


EMITTER

RECEIVER



## INDICATORS AND SETTINGS



- A** Output status and stability LEDs (receiver); power on LED (emitter)
- B** Adjustment trimmer (receiver)
- C** M12 connector output
- D** Cable output

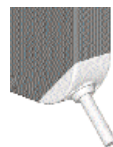
Single-turn trimmer for sensitivity adjustment. Rotate clockwise to increase the operating distance. Decrease sensitivity to increase resolution.

## ACCESSORIES

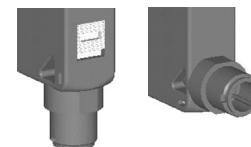
For dedicated accessories refer to the ACCESSORIES section of this catalogue.

Refer also to Connectors (A.03) and Fixing Brackets (A.04) of the General Catalogue

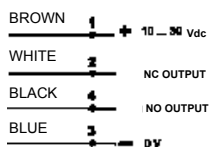
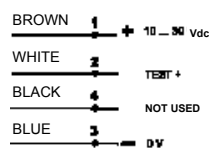
## CONNECTIONS



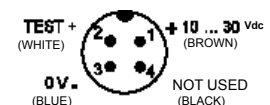
S60-PA-2



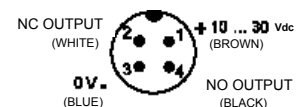
S60-PA-5



### EMITTER



### RECEIVER



## TECHNICAL DATA

		S60-PL-2-F01-NN	S60-PL-2-F01-PP	S60-PL-2-G00-XG	S60-PL-5-F01-NN	S60-PL-5-F01-PP	S60-PL-5-G00-XG
<b>Operating distance:</b>	0 ... 60 m	●	●	●	●	●	●
<b>Power supply:</b>	10 ... 30 Vdc <sup>1</sup>	●	●	●	●	●	●
<b>Ripple:</b>	≤ 2 Vpp	●	●	●	●	●	●
<b>Consumption:</b>	≤ 35 mA	●	●	●	●	●	●
<b>Light emission:</b>	red Laser 650 nm <sup>2</sup> class 1 EN 60825-1 class II CDRH21 CFR 1040.10			●			●
<b>Resolution:</b>	aprox. 6 mm a 0.5 m aprox. 10 mm over 2 m	●	●		●	●	
<b>Setting:</b>	sensitivity trimmer <sup>3</sup>	●	●		●	●	
<b>Indicators:</b>	yellow OUTPUT LED green POWER ON LED	●	●		●	●	
<b>Output type:</b>	PNP, NA and NC NPN, NA and NC		●			●	
<b>Output current:</b>	≤ 100 mA	●	●		●	●	
<b>Saturation voltage:</b>	≤ 2 V	●	●		●	●	
<b>Response time:</b>	333 μs	●	●		●	●	
<b>Switching frequency:</b>	1.5 kHz	●	●		●	●	
<b>Operating mode:</b>	dark on NO / light on NC	●	●		●	●	
<b>Auxiliary functions:</b>	Test + <sup>4</sup>			●			●
<b>Connection:</b>	2 m Ø 4 mm cable <sup>5</sup> M12 4-pole connector <sup>6</sup>	●	●				
<b>Electrical protection:</b>	class 2	●	●		●	●	
<b>Mechanical protection:</b>	IP67	●	●		●	●	
<b>Protection devices:</b>	A, B <sup>7</sup>	●	●		●	●	
<b>Housing material:</b>	ABS	●	●		●	●	
<b>Lens material:</b>	window in PMMA <sup>8</sup>	●	●		●	●	
<b>Weight:</b>	90 g max. 40 g max.	●	●				
<b>Operating temperature:</b>	-10 ... +50°C	●	●		●	●	
<b>Storage temperature:</b>	-25 ... +70°C	●	●		●	●	
<b>Reference standard:</b>	EN 60947-5-2, EN 60825-1, CDRH21 CFR 1040.10	●	●		●	●	

## SELECTION TABLE

receiver - 2 m cable		
S60-PL-2-F01-NN	956201570	NPN
S60-PL-2-F01-PP	956201420	PNP

emitter - 2 m cable		
S60-PL-2-G00-XG	956201430	

receiver - M12 connector		
S60-PL-5-F01-NN	956201270	NPN
S60-PL-5-F01-PP	956201140	PNP

emitter - M12 connector		
S60-PL-5-G00-XG	956201150	

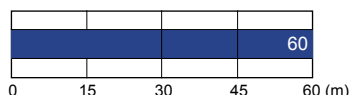
All the ordering codes and information are summarised in the last pages of this catalogue

## TECHNICAL NOTES

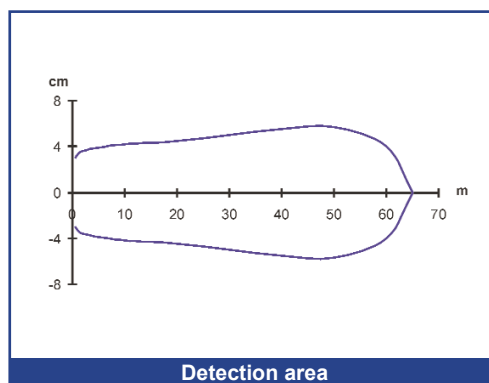
- Limit values
- Average life of 50.000 h with  $T_A = +25^\circ\text{C}$
- 270° trimmer
- Emitter off with Test+ connected to +Vdc  
Emitter on with Test+ not connected or connected to 0V
- PVC, 4 x 0.14 mm<sup>2</sup>
- Connector can be blocked on two positions
- A - reverse polarity protection  
B - overload and short-circuit protection on receiver outputs
- Internal lenses in glass and Polycarbonate



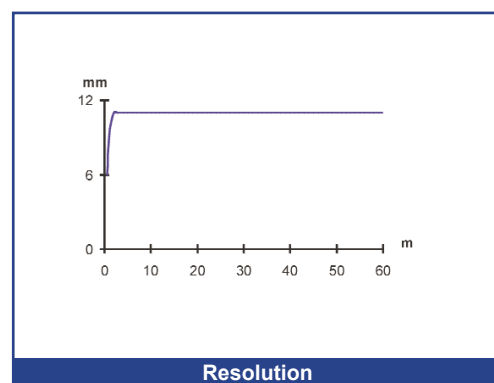
## DETECTION DIAGRAMS



■ Operating distance



Detection area



Resolution