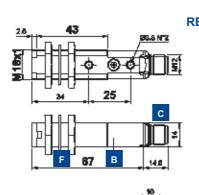
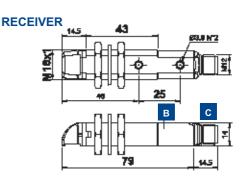
L-G/F LASER THROUGH BEAM WITH RED EMISSION

The high operating distance typical of emitter and receiver pairs 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 guarantees maximum safety for the operators in all applications.



DIMENSIONS EMITTER





42

65.1 N 72

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INDICATORS AND SETTINGS

Α	OUTPUT status and power on LEDs
В	Adjustment trimmer (receiver)
С	M12 connector output
D	Cable output
Е	Fixing nuts
F	Fixing gasket

Single-turn trimmer for sensitivity adjustment. Rotate in a clockwise direction to increase the operating distance.

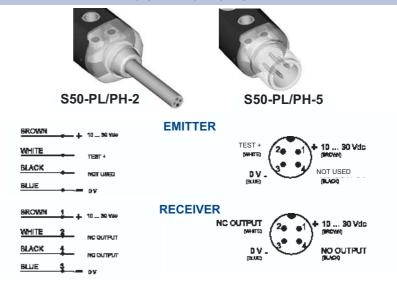
Decrease sensitivity to increase resolution.



RADIAL OPTICS

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

DATASENSOR

Versions and options: refer to MODEL ALPHABETICAL INDEX of this catalogue.

TECHNICAL DATA

										-	- 1	-	-
		S SG	N	4	Ř	N	6	۶.	N,	4	S50-PH-5-G00-XG	NN	4
		S50-PL-2-G00-XG	S50-PL-2-F01-NN	S50-PL-2-F01-PP	S50-PL-5-G00-XG	S50-PL-5-F01-NN	S50-PL-5-F01-PP	S50-PH-2-G00-XG	S50-PH-2-F01-NN	S50-PH-2-F01-PP	300	S50-PH-5-F01-NN	S50-PH-5-F01-PP
		14	-2-F	-2-F	4	-5-	-5-	-2-1	1-2-F	1-2-F	4	-9-	-2-
		14	I-I-I	H-	Ę	Ę	I-I-I	1 4	đ	đ	취	ţ	후
		S5(
Operating distance:		-		_						_	_	+	_
axial optics	0 60 m	•	•	•	•	•	•			-	-	+	-
radial optics	0 50 m	-	-	-	-	-	-	•	•		•	•	•
Power supply:	10 30 Vdc ¹	•	•	•	•	•	•	•		•			
Ripple:	≤2 Vpp		•	•	•	•	•	•	-	•	•	•	•
Consumption:			-	-	-	-	-	-	-	-	-	+	-
emitter	≤ 35 mA	•			•			•			•	+	-
receiver	≤ 30 mA			•	-	•	•	-	•		-	•	•
Light emission:	2 00 MA	-	-	-		•	-		-	-	-	-	-
Light emission.	red Laser 650 nm ²	•			•			•			•	+	-
	class 1 EN 60825-1	+			-			-			-	+	-
	class II CDRH21 CFR 1040.10	-										+	-
Resolution:		-								-		+	-
Resolution.	approx. 2.5 mm at 5 m	-	•	•		•	•		•	•		•	•
	approx. 5 mm at 10 m	+	•	•		•	•		•	•		•	•
	approx. 10 mm over 20 m	+	•	•		•	•		•	•		•	•
Setting:	sensitivity trimmer ³	+	•	•		•	•		•	•	-	•	•
Indicators:		-	-	-		•	-		-	-	-	-	-
Indicators.	yellow OUTPUT LED	-	•	•		•	•		•	•	-	•	
	green POWER ON LED	•	•	-	•	•	•	•	•	-	•	•	
Output type:	green owen on eed	-	-	-	-	-	-	-	-	-	-	+	-
Output type.	PNP. NO and NC	-		•			•			•		+	•
	NPN, NO and NC	-	•	-		•	-		•	-			-
Output current:	$\leq 100 \text{ mA}$		•	•		•	•		•	•		•	
Saturation voltage:	< 2 V		•	•		•	•			•		•	•
Response time:	333 µs	+	•	•		•	•			•		•	•
Switching frequency:	1.5 kHz	+	•	•			•		_	•		-	•
Operating mode:	dark on NO / light on NC		•	•		•	•		•	•		•	•
Auxiliary functions:	Test + ⁴	•			•			•			•	+	
Connection:		+				-						+	\neg
	2 m Ø 4 mm cable ⁵	•	•	•					•	•		+	۲
	M12 4-pole connector 6	1	-	-	•	•	•	-	-	-	•	•	•
Electrical protection:	class 2	•	•	•	•		•	•	•	•	-	•	
Mechanical protection:	IP67	•	•	•	•	•	•	•	•	•	•	•	•
Protection devices:	A. B 7		•	•	•	•	•	•	•	•	•		
Housing material:	PBT	•	•	•	•	•	•	•	•	•	•	•	
Lens material:	PMMA / glass	•	•	•	•	•	•	•	•	•	•	•	
Weight:		Ť	-	-	-	-	-		-	-	-	+	-
	75 g max.	•	•	•		-		•	•	•		+	-
	25 g max.	+	-		•	•	•				•	•	•
Operating temperature:	-10 +50°C	•	•	•	•	•	•	•	•	•	-	•	
Storage temperature:	-25 +70°C	•	•	•	•	•	•	•		•	-	•	•
Reference standard:	EN 60947-5-2.	•	•	•	•	•	•	•	-	•	-	•	
	EN 60825-1, CDRH21 CFR 1040.10		-	-	•	-	-	•	-	-	•	-	-
44 0	2.1.00020 1, 0010121 01101040.10	1.			-			-		_	-	_	

SELECTION TABLE

60 m

2 m cable						
952001420						
receiver - axial optics - 2 m cable						
952001890	NPN					
952001400	PNP					
2 m cable						
952002060						
- 2 m cable						
952002030	NPN					
952002020	PNP					
1						
M12 connector						
952001430						
receiver - axial optics - M12 connector						
952001860	NPN					
952001410	PNP					
M12 connector						
952002070	1					
	I					
receiver - radial optics - M12 connector						
952002050	NPN					
	PNP					
All the ordering codes and information are						
	2 m cable 952001890 952001400 2 m cable 952002060 - 2 m cable 952002020 M12 connector 952001430 - M12 connector 952001860 952001410 - M12 connector 952002070 - M12 connector 952002070 - M12 connector 952002050 952002040					

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

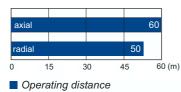
TECHNICAL NOTES

¹ Limit values

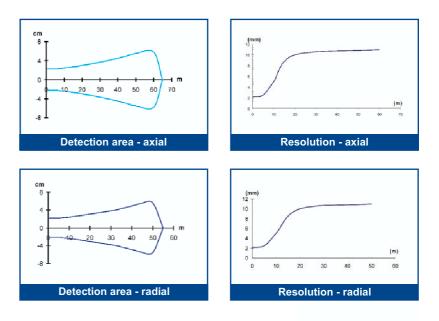
- ² Average life of 50.000 h with T_A = +25 °C
- ³ 270° single-turn trimmer
- ⁴ Emitter off with Test+ connected to +Vcc Emitter on with Test+ not connected or connected to 0V
- ⁵ PVC, 4 x 0.14 mm²
- ⁶ Compatible with quick connection systems
- ⁷ A reverse polarity protection
 - B overload and short-circuit protection on receiver outputs

The use of the MICRO-18 fixing bracket (cod. 95ACC1380) is recommended for the correct optic axis alignment of the laser emission.





DETECTION DIAGRAMS



DATASENSOR