



S62-PL...B Laser

Polarised retroreflex



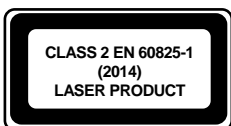
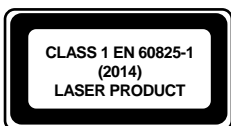
S62-PL...C Laser

Diffuse proximity

INSTRUCTION MANUAL

S62..B

S62..C



CONTROLS

OUTPUT LED (yellow)

The yellow LED ON indicates the following output status: N.O. closed and N.C. open.

POWER ON LED (green)

The green LED ON indicates the sensor powering status and laser emission presence.

SENSITIVITY TRIMMER (ADJ.)

Monoturn trimmer that adjusts the sensitivity and thus the sensor operating distance.

Please refer to "SETTING" paragraph for the correct use procedure.

WARNING: the maximum mechanical trimmer rotation is equal to 240°. Do not apply excessive torque over the maximum and minimum positions.

INSTALLATION

The sensor can be positioned by means of the three housing's holes using two screws (M4x25 or longer, 1.5 Nm maximum tightening torque) with washers. Various orientable fixing brackets to ease the sensor positioning are available (please refer to the accessories listed in the general catalogue). The operating distance is measured from the front surface of the sensor optics. The M12 connector can be oriented at two different positions using the specific fastening spring and rotating the block to 180°.

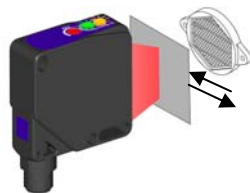


TECHNICAL DATA		
	S62..B	S62..C
Power supply:	10 ... 30 Vcc	
Ripple:	2 Vpp max.	
Consumption (output current excluded):	30 mA max	
Outputs:	PNP or NPN N.O. / N.C.; 30 Vdc max. (short-circuit protection)	
Output current:	100 mA max (overload and overvoltage protection)	
Output saturation voltage:	≤ 2 V	
Response time:	200 μs	
Switching frequency:	2.5 kHz	
Emission type:	RED LASER Class 1 EN 60825-1 (2014)	RED LASER (λ = 645...665 nm): Class 2 EN 60825-1 (2014) Class II CDRH 21 CFR PART 1040.10 Pulsed emission: pot. max ≤ 5 mW; pulse duration = 5 μs; frequency max = 32 KHz
Operating distance (typical values):	refer to TAB.1	1m on 90% white target (EG2)
Min. detectable object dimension:	0.5 mm at 0.5m (minimum spot)	
Indicators:	OUTPUT LED (YELLOW) / POWER ON LED (GREEN)	
Setting:	Monoturn sensitivity adjustment trimmer	
Functioning temperature:	-10 ... 55 °C	
Storage temperature:	-20 ... 70 °C	
Dielectric strength:	500 Vac 1 min., between electronics and housing	
Insulating resistance:	>20 MΩ 500 Vdc, between electronics and housing	
Ambient light rejection:	according to EN 60947-5-2	
Vibrations:	0.5 mm amplitude, 10 ... 55 Hz frequency, for every axis (EN60068-2-6)	
Shock resistance:	11 ms (30 G) 6 shock for every axis (EN60068-2-27)	
Housing material:	ABS	
Lens material:	PMMA window, polycarbonate lenses	
Mechanical protection:	IP67	
Connections:	M12 4-pole connector	
Weight:	40 g. max.	

S62...B SETTING

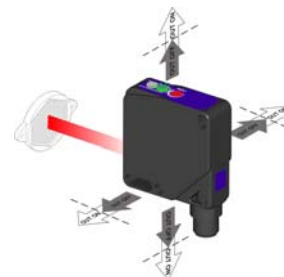
S62...B alignment:

- Position the sensor and reflector aligned on opposite sides at the desired distance.
- Turn to maximum the sensitivity adjustment trimmer (ADJ.) (clockwise).
- Determine the powering on and powering off points of the yellow LED (OUT) by moving vertically and horizontally the sensor and mount the sensor in the middle of the points found.



Control:

- Enter laterally the object inside the operating field and control that the yellow LED turns on.
- Remove the object and check that the yellow LED turns off immediately



S62...C setting:

Position the sensor and turn the sensitivity trimmer at minimum: the yellow LED is OFF. Place the target opposite the sensor.

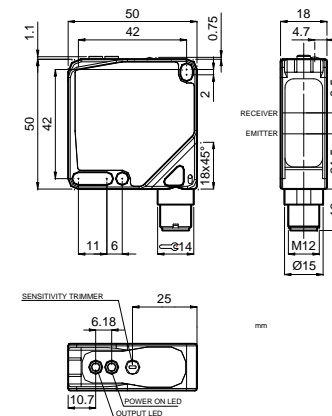
Turn the sensitivity trimmer clockwise until the yellow LED turns ON (Target detected state, pos.A).

Remove the target, the yellow LED turns OFF. Turn the trimmer clockwise until the yellow LED turns ON (Background detected state, pos.B). The trimmer reaches maximum if the background is not detected.

Turn the trimmer in intermediate position C, between the two positions A and B. The green LED must be ON.



DIMENSIONS



SAFETY PRECAUTIONS

All the electric and mechanical safety regulations have to be respected during sensor functioning. The sensor has to be protected against mechanical damage. Apply the labels supplied in a visible position near the laser emission beam.

S62..C:



Do not stare directly into the laser beam!
Do not point the laser beam towards people!
Eye irradiation superior to 0.25 seconds is dangerous. Please refer to the Class 2 Standard (EN60825-1). These sensors can not be used for safety applications!

The sensors are NOT safety devices, and so MUST NOT be used in the safety control of the machines where installed.

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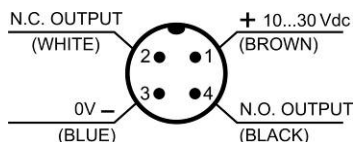
The warranty period for this product is 36 months. See General Terms and Conditions of Sales for further details.

Under current Italian and European laws, Datalogic is not obliged to take care of product disposal at the end of its life. Datalogic recommends disposing of the product in compliance with local laws or contacting authorised waste collection centres.

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CONNECTIONS

M12 connector



S62...B PERFORMANCES

TAB.1: Operating distances (m)

REFLECTOR (mm)				
R1 (Ø31)	R2 (Ø63)	R6 (60x40)	R7 (51X51)/R20 (Ø63)	R8 (19X10)
0.3 ... 16	0.3 ... 20	0.4 ... 22	0.3 ... 22	0.2 ... 2

Note: The use of the RT 3970 reflecting tape is not suggested.

