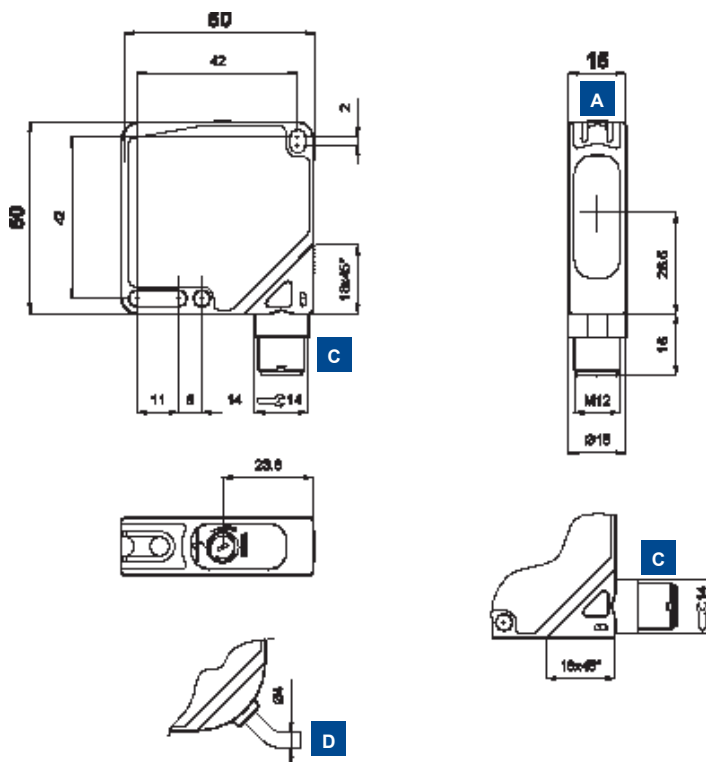


B POLARISED RETROREFLEX WITH RED EMISSION

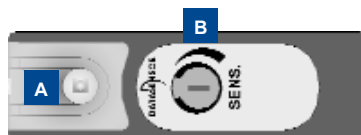
With retroreflex sensors the object is detected when it interrupts the light beam generated between the sensor and its associated prismatic reflector. High-polarisation optic filters also allow reliable detection of very reflective objects, such as mirrored surfaces that, differently from the prismatic reflector, reflect the light beam without rotating the polarisation plane.



DIMENSIONS



INDICATORS AND SETTINGS



- A** Output status and stability LEDs
- B** Adjustment trimmer
- C** M12 connector output
- D** Cable output

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

ACCESSORIES

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

Refer also to **Reflectors (A.01)**, **Connectors (A.03)** and **Fixing Brackets (A.04)** of the **General Catalogue**

CONNECTIONS



S60-PA-2



S60-PA-5

BROWN	1	+ 10 ... 30 Vdc
WHITE	2	NC OUTPUT
BLACK	4	NO OUTPUT
BLUE	3	0V

NC OUTPUT (WHITE)	2	1	+ 10 ... 30 Vdc (BROWN)
0V - (BLUE)	3	4	NO OUTPUT (BLACK)

TECHNICAL DATA

		S60-PA-2-B01-NN	S60-PA-2-B01-PP	S60-PA-5-B01-NN	S60-PA-5-B01-PP
Operating distance:	0.1 ... 8 m (on R5)	●	●	●	●
Power supply:	10 ... 30 Vdc ¹	●	●	●	●
Ripple:	≤ 2 Vpp	●	●	●	●
Consumption:	≤ 40 mA	●	●	●	●
Light emission:	red LED 660 nm ²	●	●	●	●
Spot dimension:	aprox. 90 mm at 3 m	●	●	●	●
Setting:	sensitivity trimmer ³	●	●	●	●
Indicators:					
	yellow OUTPUT LED	●	●	●	●
	green STABILITY LED	●	●	●	●
Output type:					
	PNP, NO and NC		●		●
	NPN, NO and NC	●		●	
Output current:	≤ 100 mA	●	●	●	●
Saturation voltage:	≤ 2 V	●	●	●	●
Response time:	500 μs	●	●	●	●
Switching frequency:	1 kHz	●	●	●	●
Operating mode:	dark on NO / light on NC	●	●	●	●
Connection:					
	2 m Ø 4 mm cable ⁴	●	●		
	M12 4-pole connector ⁵			●	●
Electrical protection:	class 2	●	●	●	●
Mechanical protection:	IP67	●	●	●	●
Protection devices:	A, B ⁶	●	●	●	●
Housing material:	ABS	●	●	●	●
Lens material:	window in PMMA ⁷	●	●	●	●
Weight:					
	90 g max.	●	●		
	40 g max.			●	●
Operating temperature:	-25 ... +55°C	●	●	●	●
Storage temperature:	-25 ... +70°C	●	●	●	●
Reference standard:	EN 60947-5-2	●	●	●	●

SELECTION TABLE

axial optics - 2 m cable

Part Number	Part Number	Part Number
S60-PA-2-B01-NN	956201460	NPN
S60-PA-2-B01-PP	956201300	PNP

axial optics - M12 connector

Part Number	Part Number	Part Number
S60-PA-5-B01-NN	956201180	NPN
S60-PA-5-B01-PP	956201040	PNP

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

TECHNICAL NOTES

¹ Limit values

² Average life of 100.000 h with $T_A = +25^\circ\text{C}$

³ 270° trimmer

⁴ PVC, 4 x 0.14 mm²

⁵ Connector can be blocked on two positions

⁶ A - reverse polarity protection

B - overload and short-circuit protection on outputs

⁷ Internal lenses in Polycarbonate



DETECTION DIAGRAMS

R5	7	8
R2	6	6,5

■ Recommended operating distance
 ■ Maximum operating distance

High efficiency reflectors can be used to obtain larger operating distances. Refer to **Reflectors (A.01)** of the **General Catalogue**

