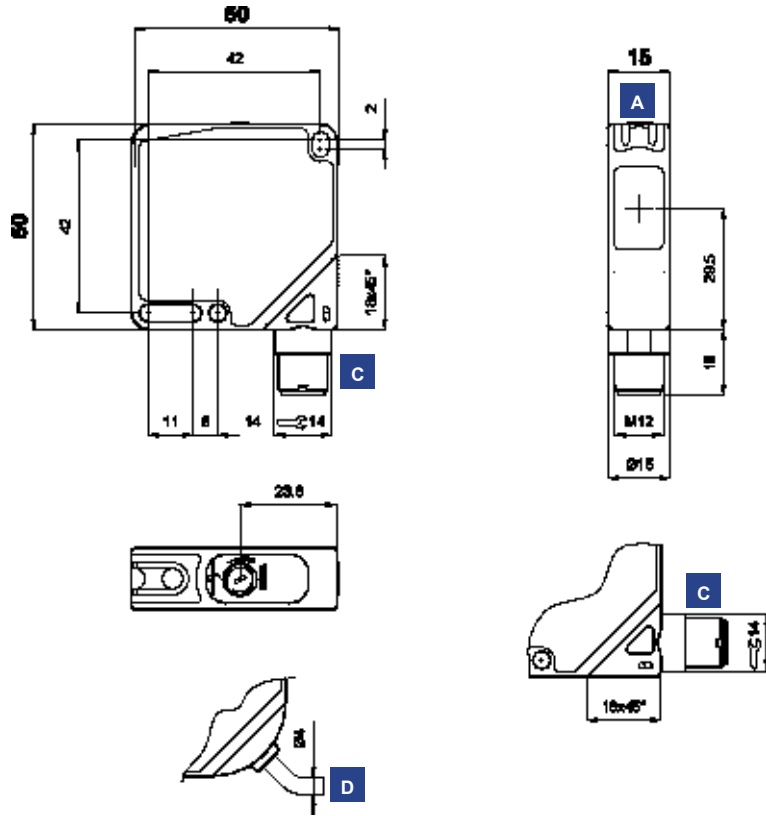


COAXIAL POLARISED RETROREFLEX FOR TRANSPARENTS

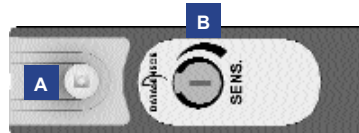
The high sensitivity and reduced hysteresis of this retroreflex sensor allow to detect even the slightest attenuation of the received light emission, caused by the presence of transparent objects, such as glass or PET bottles or plastic film sheets for packaging. The presence of polarisation filters avoids false switching on shiny surfaces and the coaxial optics improves the detection precision on the entire operating range.



DIMENSIONS



INDICATORS AND SETTINGS



- A** Output status LED
- B** Adjustment trimmer
- C** M12 connector output
- D** Cable output

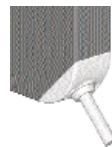
Single-turn trimmer for sensitivity adjustment.
Rotate clockwise to increase the operating distance.

ACCESSORIES

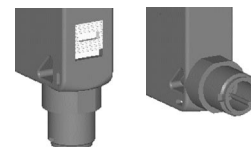
For **dedicated accessories** refer to the **ACCESSORIES** section of this catalogue.

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

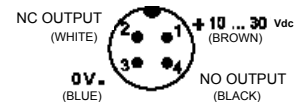
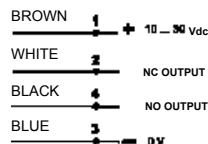
CONNECTIONS



S60-PA-2



S60-PA-5



TECHNICAL DATA

		S60-PA-2-T51-NN	S60-PA-2-T51-PP	S60-PA-5-T51-NN	S60-PA-5-T51-PP
Operating distance:	0 ... 2 m	●	●	●	●
Power supply:	10 ... 30 Vdc ¹	●	●	●	●
Ripple:	≤ 2 Vpp	●	●	●	●
Consumption:	≤ 40 mA	●	●	●	●
Light emission:	red LED 660 nm ²	●	●	●	●
Spot dimension:	aprox. 50 mm at 1.5 m	●	●	●	●
Setting:	sensitivity trimmer ³	●	●	●	●
Indicators:	yellow OUTPUT 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 materiale:	window in glass (tilted anti-reflection) 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

coaxial optics - 2 m cable		
S60-PA-2-T51-NN	956201530	NPN
S60-PA-2-T51-PP	956201380	PNP

coaxial optics - M12 connector		
S60-PA-5-T51-NN	956201250	NPN
S60-PA-5-T51-PP	956201100	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

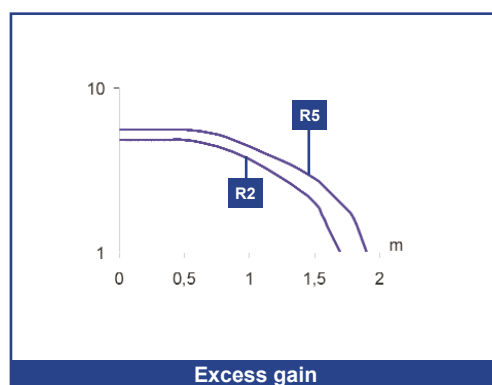
⁷ Internal lenses in glass



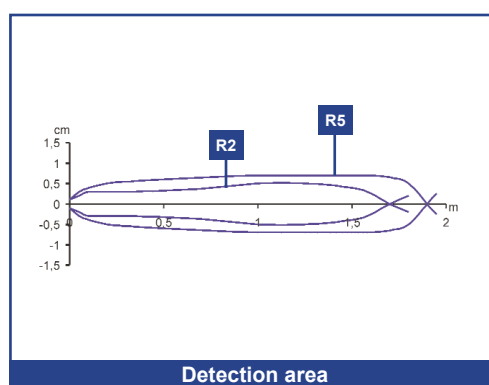
DETECTION DIAGRAMS

R5	1,7	2
R2	1,5	1,7

■ Recommended operating distance
■ Maximum operating distance



Excess gain



Detection area