

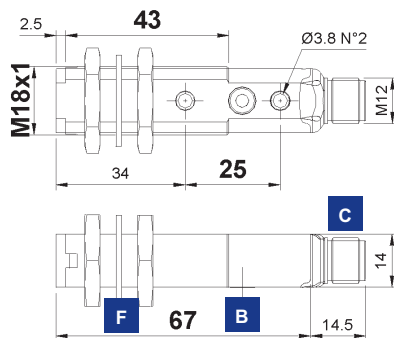
N FORE-BACKGROUND SUPPRESSION WITH RED EMISSION

The fore-background suppression proximity allows to precisely adjust the minimum and maximum detection distance. The **EASYtouch™** setting procedure fixes automatically the best detection conditions, simply pressing once the teach-in push-button, in presence of the reference to detect.

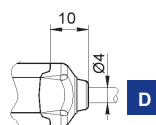
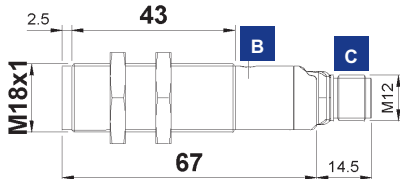


DIMENSIONS

PLASTIC HOUSING

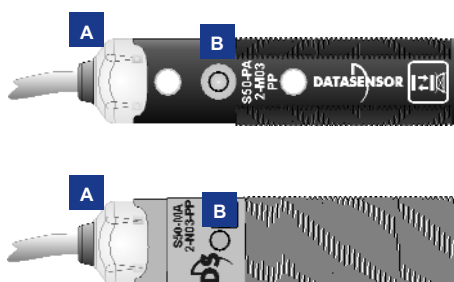


METAL HOUSING



mm

INDICATORS AND SETTINGS



- A** OUTPUT status and READY / ERROR LEDs
- B** Teach-in push-button
- C** M12 connector output
- D** Cable output
- E** Fixing nuts
- F** Fixing gasket

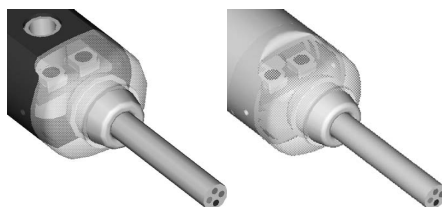
Teach-in button for setting. **EASYtouch™** provides two setting modes: standard or fine, both obtained by pressing the push-button only once. Please refer to instructions manual for operating details.

ACCESSORIES

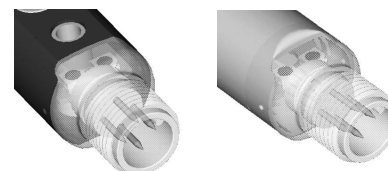
For dedicated accessories refer to the **ACCESSORIES** section of this catalogue.

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

CONNECTIONS

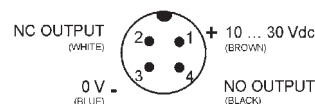


S50-XX-2



S50-XX-5

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





TECHNICAL DATA

		S50-PA-2-N03-NN	S50-PA-2-N03-PP	S50-PA-5-N03-NN	S50-PA-5-N03-PP	S50-MA-2-N03-NN	S50-MA-2-N03-PP	S50-MA-5-N03-NN	S50-MA-5-N03-PP
Operating distance:	4 ... 10 cm	●	●	●	●	●	●	●	●
Power supply:	10 ... 30 Vdc ¹	●	●	●	●	●	●	●	●
Ripple:	≤ 2 Vpp	●	●	●	●	●	●	●	●
Consumption:	≤ 30 mA	●	●	●	●	●	●	●	●
Light emission:	red LED 630 nm ²	●	●	●	●	●	●	●	●
Spot dimension:	approx. 8 mm at 10 cm	●	●	●	●	●	●	●	●
Setting:	teach-in push-button	●	●	●	●	●	●	●	●
Setting procedure:	teach-in <i>EASYtouch</i> TM	●	●	●	●	●	●	●	●
Indicators:									
	yellow OUTPUT LED	●	●	●	●	●	●	●	●
	green / red READY / ERROR LED	●	●	●	●	●	●	●	●
Output type:									
	PNP, NO and NC		●	●	●	●	●	●	●
	NPN, NO and NC	●	●	●	●	●	●	●	●
Output current:	≤ 100 mA	●	●	●	●	●	●	●	●
Saturation voltage:	≤ 2 V	●	●	●	●	●	●	●	●
Response time:	2 ms	●	●	●	●	●	●	●	●
Switching frequency:	250 Hz	●	●	●	●	●	●	●	●
Operating mode:	dark on NO / light on NC	●	●	●	●	●	●	●	●
Connection:									
	2 m Ø 4 mm cable ³	●	●	●	●	●	●	●	●
	M12 4-pole connector ⁴			●	●	●	●	●	●
Electrical protection:	class 2	●	●	●	●	●	●	●	●
Mechanical protection:	IP67	●	●	●	●	●	●	●	●
Protection devices:	A, B ⁵	●	●	●	●	●	●	●	●
Housing material:									
	PBT	●	●	●	●	●	●	●	●
	nickel plated brass					●	●	●	●
Lens material:	PMMA	●	●	●	●	●	●	●	●
Weight:									
	75 g max.	●	●						
	25 g max.			●	●				
	110 g max.					●	●		
	60 g max.							●	●
Operating temperature:	-25 ... +55°C	●	●	●	●	●	●	●	●
Storage temperature:	-25 ... +70°C	●	●	●	●	●	●	●	●
Reference standard:	EN 60947-5-2	●	●	●	●	●	●	●	●

SELECTION TABLE

plastic - axial optics - 2 m cable		
S50-PA-2-N03-NN	952001680	NPN
S50-PA-2-N03-PP	952001440	PNP

metal - axial optics - 2 m cable		
S50-MA-2-N03-NN	952021560	NPN
S50-MA-2-N03-PP	952021080	PNP

plastic - axial optics - M12 connector		
S50-PA-5-N03-NN	952001570	NPN
S50-PA-5-N03-PP	952001450	PNP

metal - axial optics - M12 connector		
S50-MA-5-N03-NN	952021720	NPN
S50-MA-5-N03-PP	952021280	PNP

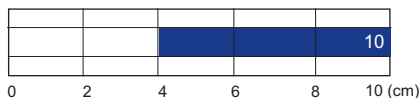
All the ordering codes and information are summarised in the last pages of this catalogue.

TECHNICAL NOTES

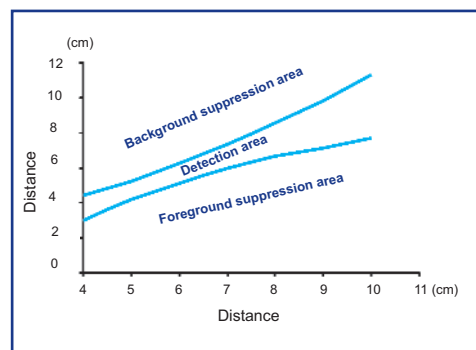
- ¹ Limit values
- ² Average life of 100.000 h with T_A = +25 °C
- ³ PVC, 4 x 0.14 mm²
- ⁴ Compatible with quick connection systems
- ⁵ A - reverse polarity protection
B - overload and short-circuit protection on the outputs



DETECTION DIAGRAMS



■ Operating distance



Detection hysteresis with *EASYtouch*TM acquisition

Note: in the fine acquisition mode, the foreground suppression distance is nearer to the point where the object has been acquired