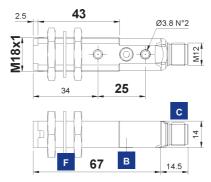
M AXIAL BACKGROUND SUPPRESSION WITH RED EMISSION

Background suppression proximity allows to precisely adjust the distance over which the object is not detected, with the minimum difference between reflective objects. The *EASYtouch™* setting procedure fixes automatically the best detection conditions, simply pressing once the teach-in pushbutton, in presence of the reference to detect.



DIMENSIONS

PLASTIC HOUSING



METAL HOUSING 2.5 43 B C 10





INDICATORS AND SETTINGS





OUTPUT status and READY/ERROR LEDs

B Teach-in push-button

c M12 connector output

Cable output

Fixing nuts

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.

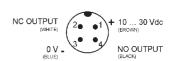






S50-XX-5









TECHNICAL DATA S50-PA-2-M03-PP S50-PA-5-M03-NN S50-PA-5-M03-NN S50-MA-2-M03-NN S50-MA-2-M03-NN S50-MA-5-M03-PP 5 ... 10 cm Operating distance: Power supply: 10 ... 30 Vdc Ripple: ≤ 2 Vpp Consumption: ≤ 30 mA Light emission: red LED 630 nm² Spot dimension: approx. 8 mm at 10 cm Setting: teach-in push-button Setting procedure: teach-in EASYtouch™ 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: 1 ms Switching frequency: 500 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 Housing material: PBT nickel plated brass • • • • Lens material: PMMA Weight: 75 g max. • • 25 g max. • • 110 g max • • 60 g max. -25 ... +55°C Operating temperature: Storage temperature: -25 ... +70°C Reference standard: EN 60947-5-2

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plastic axial optics	Z III Gabic				
S50-PA-2-M03-NN	952001670	NPN			
S50-PA-2-M03-PP	952001230	PNP			
metal - axial optics - 2 m cable					

motal axial option	Z III OGDIO	
S50-MA-2-M03-NN	952021550	NPN
S50-MA-2-M03-PP	952021070	PNP

S50-PA-5-M03-NN	952001560	NPN
S50-PA-5-M03-PP	952001000	PNP
•		

plastic - axial optics - M12 connector

metal - axial optics - M12 connector

S50-MA-5-M03-NN

S50-MA-5-M03-PP 952021270 PNP
All the ordering codes and information are summarised in the last pages of this catalogue.

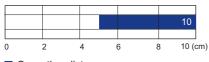
952021710

TECHNICAL NOTES

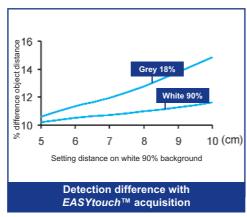
- ¹ Limit values
- ² Average life of 100.000 h with T_A = +25 °C
- ³ PVC, 4 x 0.14 mm²
- ⁴ Compatible with quick connection systems
- ⁵ A reverse polarity protection
 - B overload and short-circuit protection on the outputs

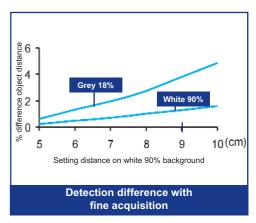
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DETECTION DIAGRAMS



Operating distance







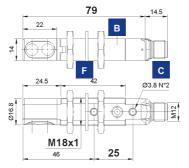
M RADIAL BACKGROUND SUPPRESSION WITH RED EMISSION

Background suppression proximity allows to precisely adjust the distance over which the object is not detected, with the minimum difference between reflective objects. The *EASYtouch™* setting procedure fixes automatically the best detection conditions, simply pressing once the teach-in pushbutton, in presence of the reference to detect.

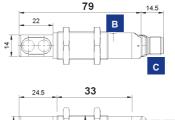


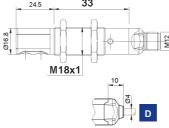
DIMENSIONS

PLASTIC HOUSING



METAL HOUSING







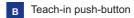
mm

INDICATORS AND SETTINGS





OUTPUT status and READY/ERROR LEDs



- c M12 connector output
- Cable output
- Fixing nuts
- 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

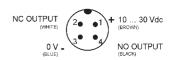






S50-XX-5







	TECHNICAL DATA								
		S50-PS-2-M03-NN	S50-PS-2-M03-PP	S50-PS-5-M03-NN	S50-PS-5-M03-PP	S50-MS-2-M03-NN	S50-MS-2-M03-PP	S50-MS-5-M03-NN	S50-MS-5-M03-PP
Operating distance:	5 10 cm	•	•	•	•	•	•	•	•
Power supply:	10 30 Vdc ¹	•	•	•	•	•	•	•	•
Ripple:	≤ 2 Vpp	•	•	•	•	•	•	•	•
Consumption:	≤ 30 mA	•	•	•	•	•	•	•	•
Light emission:	red LED 630 nm ²	•	•	•	•	•	•	•	•
Spot dimension:	approx. 10 mm at 10 cm	•	•	•	•	•	•	•	-
Setting:	teach-in push-button	•	•	•	•	•	•	•	-
Setting procedure:	teach-in <i>EASYtouch</i> ™	•	•	•	•	•	•	•	•
Indicators:	100.011 111 27 10 7 10 00 077		Ť	Ť	Ť	Ť	Ť	Ť	Ť
	yellow OUTPUT LED	•	•	•	•	•	•	•	•
	green / red READY / ERROR LED	•	•	•	•	•	•	•	•
Output type:	g			Ť	Ė	Ė	Ť	Ė	Ė
	PNP. NO and NC		•		•	Н	•	П	•
	NPN. NO and NC	•		•	Ė	•	Ť	•	Ė
Output current:	≤ 100 mA	•	•	•	•	•	•	•	•
Saturation voltage:	≤ 2 V	•	•	•	•	•	•	•	•
Response time:	1 ms	•	•	•	•	•	•	•	•
Switching frequency:	500 Hz	•	•	•	•	•	•	•	•
Operating mode:	dark on NO / light on NC	•	•	•	•	•	•	•	•
Connection:						Г		П	Г
	2 m Ø 4 mm cable ³	•	•			•	•	П	Г
	M12 4-pole connector ⁴			•	•	Г		•	•
Electrical protection:	class 2	•	•	•	•	•	•	•	•
Mechanical protection:	IP67	•	•	•	•	•	•	•	•
Protection devices:	A, B ⁵	•	•	•	•	•	•	•	•
Housing material:	,					Г		П	Г
<u> </u>	PBT / PVC	•	•	•	•			П	Г
	nickel plated brass					•	•	•	•
Lens material:	glass	•	•	•	•	•	•	•	•
Weight:						Г		П	Г
	90 g max.	•	•					П	Г
	40 g max.			•	•	Г		П	Г
	125 g max.					•	•	П	Г
	75 g max.							•	•
Operating temperature:	-25 +55°C	•	•	•	•	•	•	•	•
Storage temperature:	-25 +70°C	•	•	•	•	•	•	•	•
Reference standard:	EN 60947-5-2		•	•	•	•	•	•	•

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plastic - 2 m cable				
S50-PS-2-M03-NN	952001900	NPN		
S50-PS-2-M03-PP	952001910	PNP		
metal - 2 m cable				
S50-MS-2-M03-NN	952021900	NPN		
S50-MS-2-M03-PP	952021910	PNP		
plastic - M12 connector				
S50-PS-5-M03-NN	952001920	NPN		
S50-PS-5-M03-PP	952001930	PNP		

metal - M12 connector						
S50-MS-5-M03-NN	952021920	NPN				
S50-MS-5-M03-PP	952021930	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 $^{\circ} \mathrm{C}$
- 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

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DETECTION DIAGRAMS

