M AXIAL BACKGROUND SUPPRESSION WITH RED EMISSION

2.5

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*TM setting procedure fixes automatically the best detection conditions, simply pressing once the teach-in pushbutton, in presence of the reference to detect.



METAL HOUSING

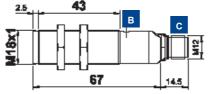
DIMENSIONS

PLASTIC HOUSING

Ø3.5 N*2

С

145



67

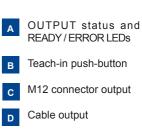
25

В





INDICATORS AND SETTINGS





Teach-in button for setting.

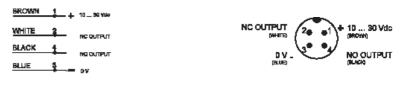
EASYtouch[™] provides two setting modes: standard or fine, both obtained by pressing the push-button only once. Please refer to instructions manual for operating details.

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.







Versions and options: refer to MODEL ALPHABETICAL INDEX of this catalogue.

S50-MA

10 cm

TECHNICAL DATA

		S50-PA-2-M03-NN	S50-PA-2-M03-PP	S50-PA-5-M03-NN	S50-PA-5-M03-PP	S50-MA-2-M03-NN	S50-MA-2-M03-PP	S50-MA-5-M03-NN	S50-MA-5-M03-PP
Operating distance:	5 10 cm	٠	٠	•	•	•	٠	٠	٠
Power supply:	10 30 Vdc ¹	•	•	٠	٠	•	٠	•	•
Ripple:	≤ 2 Vpp	•	•	٠	٠	•		٠	•
Consumption:	≤ 30 mA	•	•	٠	٠	•	٠	٠	•
Light emission:	red LED 630 nm ²	•	٠	٠	٠	•	٠	•	•
Spot dimension:	approx. 8 mm at 10 cm	•	•	٠	٠	•	٠	٠	•
Setting:	teach-in push-button	•	•	٠	٠	•	٠	•	•
Setting procedure:	teach-in <i>EASYtouch</i> ™	•		•	•	•	٠	•	•
Indicators:									
	yellow OUTPUT LED	•	•	٠	•	•	٠	•	•
	green / red READY / ERROR LED	•	•	•	•	•	٠	•	•
Output type:									
	PNP, NO and NC		•		٠		٠		٠
	NPN, NO and NC	•		٠		•		٠	
Output current:	≤ 100 mA	•	•	•	٠	•	\bullet	٠	•
Saturation voltage:	$\leq 2 V$	•	٠	٠	٠	•	٠	٠	•
Response time:	1 ms	•	٠	٠	٠	•	٠	٠	٠
Switching frequency:	500 Hz	•	•	•	٠	•	\bullet	٠	•
Operating mode:	dark on NO / light on NC	•	•	•	٠	•	\bullet	٠	•
Connection:									
	2 m Ø 4 mm cable ³	•	•			•	٠		
	M12 4-pole connector ⁴			٠	•			•	•
Electrical protection:	class 2	•	•	٠	٠	•	•	•	•
Mechanical protection:	IP67	•	٠	٠	٠	•	•	•	•
Protection devices:	A, B ⁵	•	•	٠	٠	•	•	•	•
Housing material:									
	PBT	•	•	٠	٠				
	nickel plated brass					٠	\bullet	٠	•
Lens material:	PMMA	•	•	٠	•	•		•	•
Weight:									
	75 g max.	۲	٠						
	25 g max.			٠	•				
	110 g max.						٠		
	60 g max.							٠	•
Operating temperature:	-25 +55°C	•	٠	٠	٠	•		•	•
Storage temperature:	-25 +70°C	•	٠	•	•	•		•	•
Reference standard:	EN 60947-5-2		1	-	-			-	

SELECTION TABLE

plastic - axial optics - 2 m cable							
S50-PA-2-M03-NN	PA-2-M03-NN 952001670 NPN						
S50-PA-2-M03-PP	952001230	PNP					
metal - axial optics - 2	m cable						
S50-MA-2-M03-NN	03-NN 952021550 NPN						
S50-MA-2-M03-PP	952021070	PNP					
plastic - axial optics - M12 connector							
S50-PA-5-M03-NN	952001560	NPN					
S50-PA-5-M03-PP	952001000	PNP					

metal - axial optics - M12 connector									
S50-MA-5-M03-NN	952021710	NPN							
S50-MA-5-M03-PP	952021270	PNP							

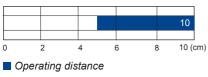
All the ordering codes and information are summarised in the last pages of this catalogue.

TECHNICAL NOTES

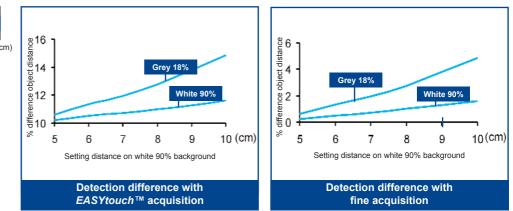
¹ Limit values

 2 Average life of 100.000 h with $T_{\rm A}$ = +25 $^{\circ}{\rm C}$

- 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

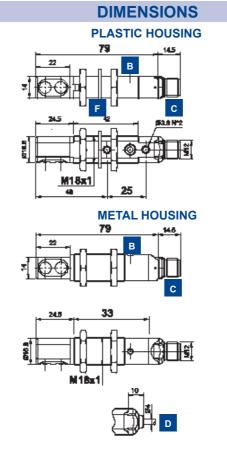


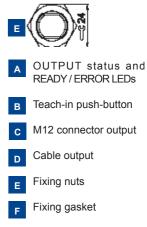
DATASENSOR

M RADIAL BACKGROUND SUPPRESSION WITH RED EMISSION

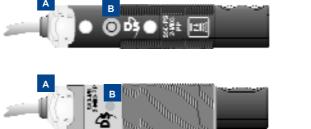
Background suppression proximity allows to precisely adjust the distance over which the object is not detected, with the minimum difference between reflective objects. The *EASYtouch*TM setting procedure fixes automatically the best detection conditions, simply pressing once the teach-in pushbutton,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







INDICATORS AND SETTINGS



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.







Versions and options: refer to MODEL ALPHABETICAL INDEX of this catalogue.

S50-MS

10 cm

I**≈I**X

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	•	٠	٠	٠	•	٠	•	•
Power supply:	10 30 Vdc ¹	•	•	•	•	•	\bullet	•	•
Ripple:	≤ 2 Vpp	•	•	•	•	•	\bullet	•	•
Consumption:	≤ 30 mA	•	•	•	•	٠		•	•
Light emission:	red LED 630 nm ²	•	•	•	•	•	•	٠	•
Spot dimension:	approx. 10 mm at 10 cm	•	•	٠	٠	•	٠	•	•
Setting:	teach-in push-button	•	•	•	•	•	•	•	•
Setting procedure:	teach-in <i>EASYtouch</i> ™	•	•	•	•	•	•	•	•
Indicators:								-	
	yellow OUTPUT LED	•	•	•	•	•	•	•	•
	green / red READY / ERROR LED	•	•	•	•	•	•	•	•
Output type:									_
	PNP, NO and NC		•		•		•	\neg	•
	NPN, NO and NC	•	-	•	-	•	-	•	-
Output current:	≤ 100 mA		•	•	•	•	•		•
Saturation voltage:	≤ 2 V		•	•	•		•		Ť
Response time:	1 ms	•	•	•	•	•	•	•	Ť
Switching frequency:	500 Hz	-	•	•	•	•	•	•	
Operating mode:	dark on NO / light on NC		•	•	•	•	•	•	
Connection:		-	-	-	-	-	-	-	-
oonnection.	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:	Λ, D		-	-	-	-	-	-	-
Housing material.	PBT / PVC	•	•	•	•			-	
	nickel plated brass		-	-	-		•		
Lens material:	glass	•	•	•	•	•		-	-
	ylass	•	-	-	-	•	-	-	-
Weight:	00	-		-	-	-		_	
	90 g max.	•	-		•	-		\neg	
	40 g max.		-	•				+	
	125 g max.					•	•	_	_
O	75 g max.							•	•
Operating temperature:	-25 +55°C	•	•	•	•	•	•	•	•
Storage temperature:	<u>-25 +70°C</u>	•	•	•	•	•	•	•	•
Reference standard:	EN 60947-5-2								•

SELECTION TABLE

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 connecto	r	
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

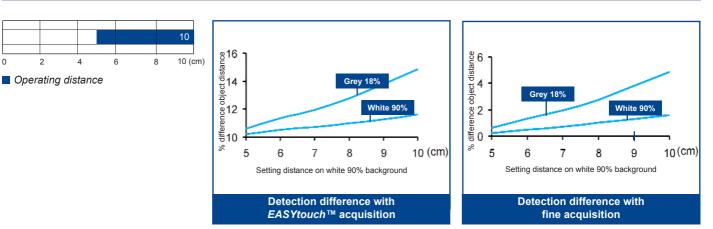
¹ Limit values

² Average life of 100.000 h with T_A = +25 °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

DATASENSOR

