# DATALOGIC

## **TECHNICAL DATA**

TECHNICAL NOTES									
<sup>1</sup> Limit values			•	z	_	z	4	z	۵.
<sup>2</sup> Average life of 100.000 h with TA = +25 °C			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
<sup>3</sup> PVC, 4 x 0.14 mm <sup>2</sup> <sup>4</sup> Compatible with quick connection systems			ğ	Ň	ЮW	ş	ş	ş	Ř
5A - reverse polarity protection	1	5	5	- <u>-</u> -	-5-	4 A	Å-	₽	A-5
B - overload and short-circuit	protection on receiver outputs	S50-PA-2-M03-NN	4	4	4	Ř	Ň	Ň	Ň-
		S50	<b>S5</b> C	<b>S5C</b>	S50	S50	S50	S50	S5(
Operating distance:	5 10 cm	•	•	•	•	•	٠	٠	•
Power supply:	10 30 Vdc <sup>1</sup>	•	•	•	•	•	•	•	•
Ripple:	≤ 2 Vpp	•	•	•	•	•	•	•	•
Consumption:	≤30 mA	•	•	•	•	•	٠	٠	•
Light emission:	red LED 630 nm <sup>2</sup>	•	•	•	•	•	٠	٠	•
Spot dimension:	teach-in push-button	•	•	•	•	•	٠	•	•
Setting:	teach-in EASYtouch™	•	•	•	•	•	•	•	•
Indicators:	yellow OUTPUT LED	•	٠	٠	•	•	٠	٠	•
	green / red READY / ERROR LED	•	•	•	•	•	٠	٠	•
Output type:	PNP, NO and NC		•		•		•		•
	NPN, NO and NC	•		٠		•		٠	
Output current:	≤100 mA	•	٠	٠	•	•	٠	٠	•
Saturation voltage:	≤ 2 V	•	•	•	•	•	٠	•	•
Response time:	1 ms	•	•	•	•	•	•	•	•
Switching frequency:	500 Hz	•	•	٠	•	•	٠	•	•
Operating mode:	dark on NO / light on NC	•	•	•	•	•	٠	٠	•
Connection:	2 m Ø 4 mm cable <sup>3</sup>	•	•			•	•		
	M12 4-pole connector <sup>4</sup>			•	•			•	•
Electrical protection:	class 2	•	٠	٠	•	•	٠	٠	•
Mechanical protection:	IP67	•	٠	•	•	•	٠	٠	•
Protection devices:	A, B⁵	•	٠	٠	•	•	٠	•	•
Housing material:	PBT / PVC	•	•	•	•				
	nickel plated brass					٠	•	•	•
Lens material:	glass	•	•	•	•	•	٠	•	•
Weight:	90 g max.	•	٠						
	40 g max.			•	•				
	125 g max.					•	٠		
	75 g max.							٠	•
Operating temperature:	-25 +55°C	•	•	•	•	•	•	•	•
Storage temperature:	-25 +70°C	•	•	•	•	•	٠	•	•
Reference standard:	EN 60947-5-2	•	•	•	•	•	•	•	•

## SELECTION TABLE

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

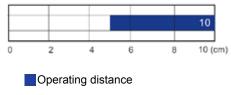
metal - axial optics - 2 m cable				
S50-MA-2-M03-NN	952021550	NPN		
S50-MA-2-M03-PP	952021070	PNP		

plastic - axial optics - M12 connector			
S50-PA-5-M03-NN	952001560	NPN	
S50-PA-5-M03-PP	952001000	PNP	

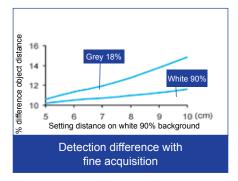
metal - axial optics - M12 connector			
S50-MA-5-M03-NN	952021710	NPN	
S50-MA-5-M03-PP	952021270	PNP	

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

## **DETECTION DIAGRAMS**







### **M RADIAL RED EMISSION**

This version of diffuse proximity sensor has a detection distance that can be set using the sensitivity adjustment trimmer. The green stability LED indicates whether the received signal is above to the minimum signal for stable output switching.

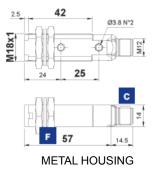


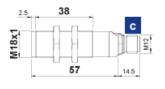
ACCESSORIES

catalogue.

#### DIMENSIONS

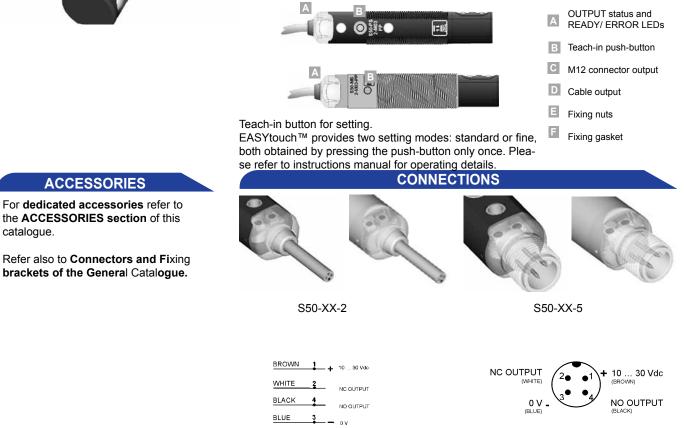
### PLASTIC HOUSING







#### INDICATORS AND SETTINGS



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