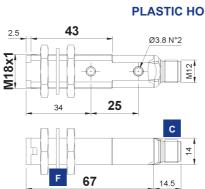
Y DISTANCE SENSOR WITH RED EMISSION

This sensor gives an analogue 0-10 Vdc output proportional to an object's distance from the face of the sensor over a distance of 100 mm. The light intensity of the yellow indicator LED at the rear of the sensor is proportional to the object's distance, the red LED turns on when the object is outside the measurement field.



DATASENSOR

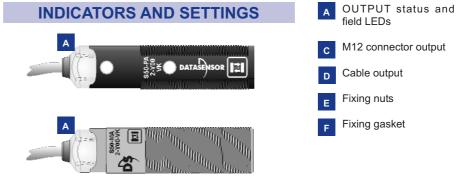


METAL HOUSING 43 2.5 M18x1 Т Ц Г 67 14.5

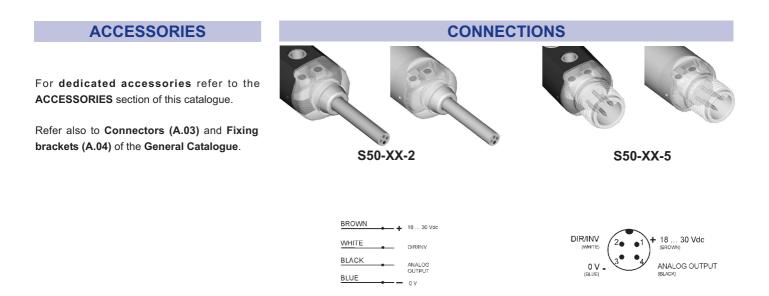




mm



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



40

DIMENSIONS

PLASTIC HOUSING

S50-PA

TECHNICAL DATA

		S50-PA-2-Y00-VK	S50-PA-5-Y00-VK	S50-MA-2-Y00-VK	S50-MA-5-Y00-VK
Operating distance:	5 10 cm	•	٠	٠	٠
Power supply:	18 30 Vdc 1	•	•	•	٠
Ripple:	≤ 2 Vpp		•	٠	٠
Consumption:	≤ 30 mA	•	•	•	٠
Light emission:	red LED 630 nm ²	•	•	•	٠
Spot dimension:	approx. 8 mm at 10 cm	•	•	٠	
Indicators:					
	yellow proportional OUTPUT LED	•	•	•	
	red field LED	•	٠	•	
Output type:	analogue with 0 10V voltage	•	•	•	•
Output resistance:	2 kΩ	•	•	•	•
Load resistance:	≥ 20 kΩ	•	•	•	
Response time:	3,33 ms	•	•	•	٠
Switching frequency:	150 Hz	•	•	•	٠
Resolution:	1 mm / 200 mV	•			٠
Operating mode:	direct / inverse proportionality ³	•	•	•	•
Connection:					
	2 m Ø 4 mm cable⁴	•		•	
	M12 4-pole connector 5		٠		٠
Electrical protection:	class 2	•	•	•	•
Mechanical protection:	IP67	•	•	•	•
Protection devices:	A, B ⁶	•	•	•	•
Housing material:					
	PBT	•	•		
	nickel plated brass			•	٠
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		•	•	-

S50-MA

10 cm

SELECTION TABLE

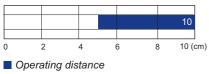
plastic - axial optics ·	plastic - axial optics - 2 m cable				
S50-PA-2-Y00-VK	952001340				
metal - axial optics - 2 m cable					
S50-MA-2-Y00-VK	952021120				
plastic - axial optics - M12 connector					
S50-PA-5-Y00-VK	952001350				

metal - axial optics - M12 connector S50-MA-5-Y00-VK 952021320

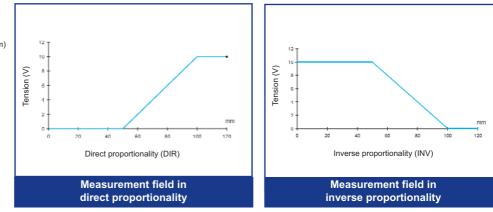
All the ordering codes and information are summarised in the last pages of this catalogue.

TECHNICAL NOTES
¹ Limit values

- ² Average life of 100.000 h with $T_A = +25 \degree C$
- ³ Direct proportionality (DIR) is activated when white wire is connected to +Vdc; Inverse proportionality (INV) is activated when white wire is connected to 0 V. The white wire must always be connected.
- ⁴ PVC, 4 x 0.14 mm²
- ⁵ Compatible with quick connection systems
- ⁶ A reverse polarity protection
 - B overload and short-circuit protection on the outputs



DETECTION DIAGRAMS



DATASENSOR