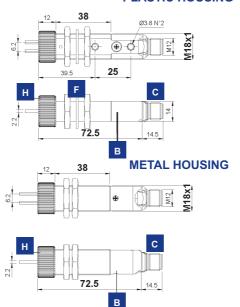
E FIBRE-OPTIC AMPLIFIER WITH RED EMISSION

The amplifier is built to accept any standard 2.2 mm Ø fibre-optic which can be for either diffused or through beam operation. A locking ring when tightened holds the fibres firmly in position. The sensitivity is adjusted by an IP67 rated trimmer. The proximity or through beam fibres are mainly used in applications where space is of a premium and for detection of small objects. Special fibres are also available for high temperature and high wear applications. For further information on extensive range of fibre-optic accessories please see the OF datasheet.



DIMENSIONS

PLASTIC HOUSING



E 62



INDICATORS AND SETTINGS



Single-turn trimmer for sensitivity adjustment. Rotate in a clockwise direction to increase the operating distance.

- A OUTPUT status and STABILITY LEDs
- B Adjustment trimmer
- M12 connector output
- Cable output
- E Fixing nuts
- F Fixing gasket
- H Fibre fixing nut

ACCESSORIES

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

Refer also to Fibre-optics (A.02), Connectors (A.03) and Fixing brackets (A.04) of the General Catalogue.

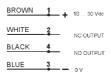
CONNECTIONS







S50-XX-5









TECHNICAL DATA S50-PA-5-E01-NN S50-PA-5-E01-PP S50-MA-2-E01-NN S50-MA-2-E01-PP S50-MA-5-E01-NN S50-MA-5-E01-PP Operating distance: 3 cm (OF-42-ST-20 standard fibres) proximity through beam 10 cm (OF-43-ST-20 standard fibres) Power supply: 10 ... 30 Vdc 1 Ripple: ≤ 2 Vpp ≤ 35 mA Consumption: red LED 660 nm² Light emission: Setting: sensitivity trimmer Indicators: yellow OUTPUT LED green STABILITY Output type: PNP, NO and NC NPN, NO and NC • ≤ 100 mA Output current: Saturation voltage: ≤ 2 V Response time: 0.5 ms Switching frequency: 1 kHz dark on NO / light on NC Operating mode: Connection: 2 m Ø 4 mm cable • • M12 4-pole connector 5 **Electrical protection:** class 2 Mechanical protection: IP67 A, B Protection devices: **Housing material:** PBT nickel plated brass Fibre fixing nut material: ABS Weight: 75 g max 25 g max. • • 110 g max. • • 60 g max . -25 ... +55°C Operating temperature: -25 ... +70°C Storage temperature: Reference standard: EN 60947-5-2

l FC1		

plastic - axial optics - 2 m cable			
S50-PA-2-E01-NN	952001650	NPN	
S50-PA-2-E01-PP	952001130	PNP	
		•	

metal - axial optics - 2 m cable				
S50-MA-	2-E01-NN	952021880	NPN	
S50-MA-	2-E01-PP	952021040	PNP	

plastic - axial optics - M12 connector				
S50-PA-5-E01-NN	952001540	NPN		
S50-PA-5-E01-PP	952001140	PNP		

metal - axial optics - M12 connector				
S50-MA-5-E01-NN	952021890	NPN		
S50-MA-5-E01-PP	952021240	PNP		

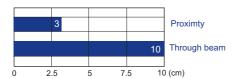
All the ordering codes and information are summarised in the last pages of this catalogue.

TECHNICAL NOTES

- ¹ Limit values
- ² Average life of 100.000 h with T_A = +25 °C
- ³ 270° single-turn trimmer
- 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



Operating distance with standard fibres

Standard fibre-optics: OF-42-ST-20 proximity OF-43-ST-20 through beam

High efficiency fibre-optics or accessory lenses can be used to obtain larger operating distances. Refer to **Fibre-optics** (A.02) of the **General Catalogue**.

