



# S70

## 950561020

**S70-5-E1-P**

ADVANCED FIBER OPTIC AMPLIFIERS FOR HIGH SPEED  
AND LOW CONTRAST APPLICATIONS

## OVERVIEW

- DIN rail mountable models with dual digital displays
- High speed models: 200  $\mu$ s...5 ms
- Super high speed models: 10  $\mu$ s...1ms
- Analog output models
- Teach-in setting via +/SET/- push-button/switch, remote input or IO-Link
- Standard 2 m cable or M8 4-pole connection

## TECHNICAL FEATURES

### Detection properties

Nominal sensing distance	250   1000mm
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Sensitivity adjustment	Teach-in
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### Application

Function Principle	Optic fiber amplifier
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Description	Slim case with display
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Optic position	axial
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Functions	Optic fiber amplifier
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#### Outputs

Output type	PNP L/D selectable
Output Function	L/D selectable
Switching frequency	2,5 kHz(HIGH SPEED) 1kHz (Standard) 250 Hz(Long Range) 100Hz (Extra long Range)
Response time	0,2

#### Electrical data

Operating Voltage	10...30VDC
No-Load supply current	≤ 40mA (standard display mode), ≤ 30mA (ECO displsy mode)
Load current	≤100mA
Output voltage drop	≤2V@Iload=100mA
LED indicators	Yellow (output state) Red (Signal level -4 digits) Green (Threshold - 4 digits)
Short-circuit protection	YES
Reverse Polarity Protection	Yes
Emission	LED Red (660nm)
Interference to external light	according to EN 60947-5-2 : 2020
Impulsive Overvoltage Protection	Yes
Insulation resistance	>20 MΩ 500 Vdc, between electronics and housing

Contact resistance	500 Vac 1 min., between electronics and housing
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#### Mechanical data

Dimensions	10x32x80
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Material	Plastic ABS / PC
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Housing material	ABS(Housing), PMMA (Optics)
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Connections	M8 plug 4pin
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Active Head Material	PMMA
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Storage temperature	- 25°C...+85°C
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Diameter/Dimension	Cubic
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#### Test/Approvals

Approvals	CE cULus
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Shocks and vibrations	0.5 mm amplitude, 10 ... 55 Hz frequency, for every axis (EN60068-2-6)
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#### Generical Data

Dimensions	10x32x80
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Operating Temperature	- 10°C...+ 55°C
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Mechanical Protection	IP67 with cover
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**Datasensing**  
**S.r.l.**

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