



S70

950561100

S70-5-E3-NI

ADVANCED FIBER OPTIC AMPLIFIERS FOR HIGH SPEED
AND LOW CONTRAST APPLICATIONS

OVERVIEW

- DIN rail mountable models with dual digital displays
- High speed models: 200 μ s...5 ms
- Super high speed models: 10 μ 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	1600 2600mm
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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
Outputs	
Output type	NPN, 4...20mA
Switching frequency	1 KHz(HIGH SPEED) 500 Hz (FAST) 250 Hz (Standard) 62,5 Hz(Long Range) 20Hz (Extra long Range)
Response time	0,5
Electrical data	
Operating Voltage	10...30VDC
No-Load supply current	≤ 40mA (standard display mode), ≤ 30mA (ECO displsy mode)
Load current	≤100mA
Output voltage drop	≤1,5V@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

Mechanical data

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

Test/Approvals

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

Generical Data

Dimensions	10x32x80
Operating Temperature	- 10°C...+ 55°C
Mechanical Protection	IP67 with cover

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date of printing

10/08/2026
03:50:17

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