



S70

950561000

S70-2-E1-N

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	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
Outputs	
Output type	NPN 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	$\leq 40\text{mA}$ (standard display mode), $\leq 30\text{mA}$ (ECO displsy mode)
Load current	$\leq 100\text{mA}$
Output voltage drop	$\leq 1,5\text{V}@I_{load}=100\text{mA}$
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	$>20\text{ M}\Omega$ 500 Vdc, between electronics and housing

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

Dimensions	10x32x80
Material	Plastic ABS / PC
Housing material	ABS(Housing), PMMA (Optics)
Connections	2m cable
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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