



S7

950551080

S7-1-E-N

FIBER OPTIC AMPLIFIERS IN A DIN RAIL COMPATIBLE
FORMAT FOR SMALL OBJECT DETECTION IN LIMITED
SPACES

OVERVIEW

- High-resolution models with integrated display
- 12 bit resolution and 50 μ s response time
- Trimmer or teach-in models
- Wide range of accessory fiber optics
- 4 wire NO/NC output or Remote teach input

TECHNICAL FEATURES

Detection properties

Nominal sensing distance	25mm
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Sensitivity adjustment	Teach-in
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Application

Function Principle	Optic fiber amplifier
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Description	Compact 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	10Khz (fast speed) 1Khz (low speed)
Response time	500μs (low speed) 50μs (high speed)
Electrical data	
Operating Voltage	12...24VDC ± 10%
No-Load supply current	≤ 50mA
Load current	≤100mA
Output voltage drop	≤2V@Iload=100mA
LED indicators	yellow (output state) green (stability, delay, speed led) green/red (Read/error)
Short-circuit protection	YES
Reverse Polarity Protection	Yes
Emission	LED white (400-700nm)
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	10x40x65
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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...+70°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	10x40x65
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Operating Temperature	- 25°C...+ 55°C (Without freeze)
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Mechanical Protection	IP67 with cover
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Datasensing S.r.l.

Strada S.Caterina, 235
41122 Modena (MO)
Tel. 059 420411
Fax 059 253973

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E-mail
info@datasensing.com