



# S7

## 950551020

S7-5-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  $\mu$ 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	100mm
--------------------------	-------

Sensitivity adjustment	Teach-in
------------------------	----------

### Application

Function Principle	Optic fiber amplifier
--------------------	-----------------------

Description	Compact case with display
-------------	---------------------------

Optic position	axial
----------------	-------

Functions	Optic fiber amplifier
-----------	-----------------------

<b>Outputs</b>	
Output type	NPN L/D Selectable
Output Function	L/D Selectable
Switching frequency	5Khz (fast speed)
Response time	100μs (high speed)

<b>Electrical data</b>	
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 Red (670 nm)
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
Material	Plastic ABS / PC
Housing material	ABS(Housing), PMMA (Optics)
Connections	2m cable
Active Head Material	PMMA
Storage temperature	- 25°C...+70°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	10x40x65
Operating Temperature	- 25°C...+ 55°C (Without freeze)
Mechanical Protection	IP67 with cover

## **Datasensing S.r.l.**

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

**date of  
printing**  
14/05/2026  
17:21:07

E-mail  
[info@datasensing.com](mailto:info@datasensing.com)