



S7

950551120

S7-7-E-P

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	100mm
--------------------------	-------

Sensitivity adjustment	Trimmer
------------------------	---------

Application

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

Description	Compact case without display
-------------	------------------------------

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

Functions	Optic fiber amplifier
Outputs	
Output type	PNP L/D selectable
Output Function	L/D selectable
Switching frequency	1Khz (low speed)
Response time	500μs (low speed)
Electrical data	
Operating Voltage	12...24VDC ± 10%
No-Load supply current	≤ 30mA
Load current	≤100mA
Output voltage drop	≤1,2V@Iload=100mA
LED indicators	yellow (output state) green (stability, delay) 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**
10/08/2026
00:06:11

E-mail
info@datasensing.com