

Fast Line Protection – (SFP-1)

General for the device

The main purpose of SFP-1 is to protect valuable electronic equipment from unwanted events occurring in the supply circuit. Many problems can be avoided simply by installing SFP-1 between the electrical source and any electronic equipment. If your equipment has an extra battery or it is sensitive to high voltage, SFP-1 will be able to help.

Main features

Reaction time	5-8 ns after sensing the threshold voltage
Switching power	max 7.7A measured at 14V and 25 Celsius
Replaceable glass fuse	max 2.5A (Recommended 1.3 times from the maximum consumption on the exit, but not more then 2.5A)
Polarity regulation	Regulates only the positive terminal
Switching voltage	15V
Maximum voltage for damaging the internal switch	100V (200V AC)
Maximum power for damaging the internal switch	100W for more then 0.5s
Opposite polarity protection in the input	1000V
Short connection of the input circuit	output is protected internally
Consumption in stand by mode	280 microamperes.
Max. Size	55 x 35 x 15mm in plastic box
Terminals	(3 terminals): input positive; ground, Output positive
Operational temperature	(-30 to +70 Celsius)
Voltage deviation in the threshold	+/- 0.5V

<p>schematics</p>	<p>Connecting SFP-1</p> <p>The device needs only three connections. The connector (3 terminals) is allocated on the upper right side of the device.</p> <p>The terminal meanings are as follow:</p> <p>Upper terminal: Connect the input positive polarity here.</p> <p>Middle terminal: Ground or negative polarity</p> <p>Down terminal: Positive output. This is the protected positive output. Please connect here your protected device.</p>
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! Attention

- This device is not protected from opposite polarity connection in the output line. If you use spare battery powered line, be sure its positive terminal is connected to the last down terminal of the device and its ground (negative) is connected to the middle terminal of the device.
- This device is mainly designed for DC voltage. In the case of AC voltage (5-14 V between the input terminals), the device will function in sleep mode by powering the output device with unstable DC voltage (approximately 1/2 from the input voltage). If the middle value of the output voltage rises over the threshold (14V) the device will trigger the protection switch.
- This detector does not have any fuse tracking system. The customer can check the state of the fuse by measuring the Resistivity between two positive terminals.

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