AWZ588
v.1.2
LB4/4x0,5A/2,5/AW/R
Fuse module

Edition: 7 from 10.11.2022
Supercedes edition: 6 from 10.04.2018

EN

1. Description.

The **LB4/4x0.5A/2.5/AW/R** fuse module is designed for power distribution in low-voltage systems requiring voltage of **10V÷30 V DC** or **10V÷24 V AC** (e.g. buffer power supply, transformer etc.). It is fitted with the IN input for power supply and 4 independently protected AUX1÷AUX4 power supply outputs. Each AUX output is equipped with short circuit protection (SCP): melting fuse F 0.5A or PTC 0.5A polymer fuse (the possibility of using 1A fuses, not supplied) as well as with overvoltage protection - varistors. Output state is indicated by 4 L1 ÷ L4 LEDs. Fuse failure is indicated by turning off the appropriate LED: L1 for AUX1, L2 for AUX2 etc. Additionally, in the case of failure, the FPS output (Hi-Z state) and the **L_{FPS}** LED are switched on. The FPS output can be used for remote control of a module e.g. external optical indication. The module is adapted for connection of cables with a maximum cross section of **2,5mm^2**.

2. Module description.

2.1. Description of components and connectors of the module.

Element nr [fig. 2]	Description
[1]	**L1 ÷ L4** green LEDs
[2]	**F1 ÷ F4** fuses in AUX (+) circuits
[3]	**AUX1 ÷ AUX4** independently secured outputs, common terminal COM (-)
[4]	**FPS** failure technical output, type OC
[5]	**FPS** failure technical output, relay
[6]	**IN, COM** – module's power input
[7]	Mounting panel
[8]	**L_{FPS}** (red) LED indicating failure
[9]	Jumper for fuse - glass fuse/PTC

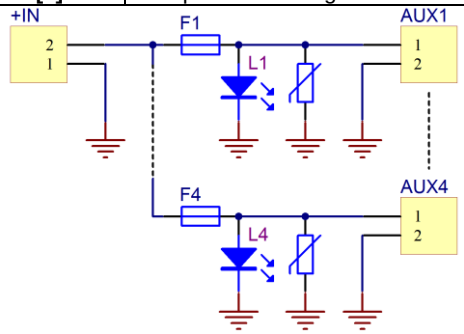

Fig.1. Electrical diagram.

3. Specifications.

Supply voltage	10 – 30 VDC (-2%/+2%) 10 – 24 VAC (-2%/+2%)
Output voltage	$U_{AUX} = U_{IN}$ (equal to supply voltage)
Current consumption	15 - 42mA @ Uin=10 – 30 V DC 37 - 42mA @ Uin=10 – 24 V AC
Voltage of relay's contacts	30 V DC / 48 V AC
Current of relay's contacts	1 A max.
Number of power inputs	1 (IN terminals) – max. **2,5mm^2** cable
Number of power outputs	4 (AUX terminals) – max. **2,5mm^2** cable
Protections against: **- a short circuit SCP** **- an overload OLP** **- a surge**	- 4 x F 0,5A or PTC 0,5A (the possibility of using 1A fuses, not supplied) - varistors
LED indication	- green LED **L1 ÷ L4** – status of the AUX1÷AUX4 outputs - red LED **L_{FPS}** – indicates failure
F1 ÷ F4 fuses	F 0,5A or PTC 0,5A
Operating conditions	-10°C ÷ 50°C
Dimensions	L=125, W=43, H=32 (+/-2mm)
Installation	A mounting panel with an adhesive tape, mounting screws x 2 (holes ∅3mm)
Connectors: **- power supply input/output, technical output**	Φ0,51÷2,05 (AWG 24-12) 0,5 ÷ 2,5mm^2
Declarations, warranty	CE, 2 years from production date
Net/gross weight	0,07 / 0,10 [kg]

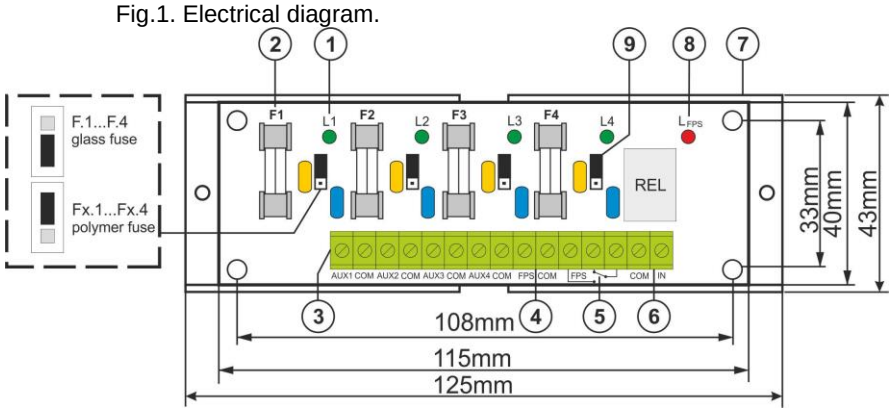

Fig.2. The view of the module.

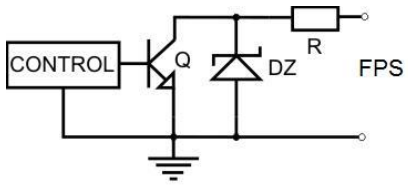

Fig.3. Electrical diagram of the OC output.

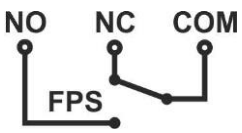

Fig. 4. Electrical diagram of the relay output

WEEE PARKING

According to the EU WEE Directive – It is required not to dispose of electric or electronic waste as unsorted municipal waste and to collect such WEEE separately.

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