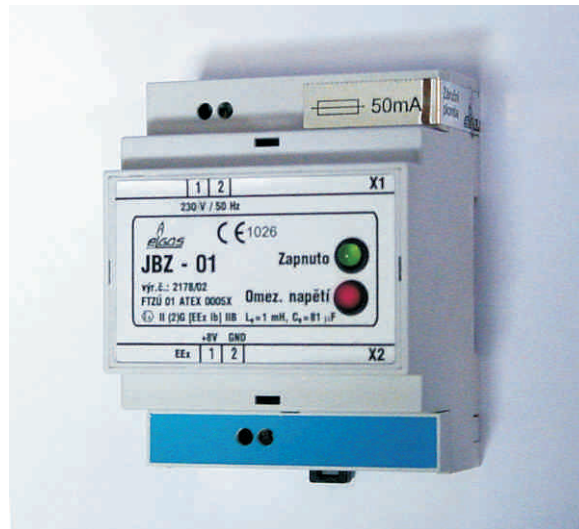


INTRINSICALLY SAFE POWER SUPPLY JBZ-01

It assures the network power supply of ELCOR-94. It is located into the plastic box, mechanically modified for mounting to DIN 35mm moulding. There are two LED indication diodes on the module, which indicates the module function. Green LED diode "Switch on" indicates the module switching on, the red LED diode "Voltage Limitation" indicates the module failure. The limitation of output voltage and the current from the reason of intrinsically safe is assured by the semiconductor limiters. There are two fuses to be stepped in the module, at primary circuit it is an irreversible fuse, accessible upon the removal of X1 terminal plate cover; at secondary circuit it is an reversible fuse.



Technical parameters

Specified supply voltage	230 V/50 Hz
Permissible tolerance	+ 10%
Maximum input	5 VA
Specified output voltage	7,9 V
Max. output voltage	8,2 V *)
Max. output power	0,41 W *)
Max. attachment capacity Ca	81 mF
Max. attachment inductivity La	1 mH
Range of operating temperatures	-20 °C ... +60 °C
Shielding	IP20
Assurance of inexplosivity	II (2)G [EEx ib] IIB
Type of ES Certificate	FTZÚ 01 ATEX 0005X

Dimensions	70 x 90 x 60 (mm)
Weight	approx. 250 g
Case material	tenacious polystyrene
Input and Output Terminals	1,5 mm ²
Protection - primary	safety fuse MT785050, 50 mA **)
Protection - secondary	return fuse MFR - 010, 100 mA

*) for the purposes of intrinsically safe it is assured by semiconductor limiters

***) accessible upon removal of X1 terminal cover

Operating Instructions

For the information of the service about the status of JBZ-01 the module is equipped by two indicating LED diodes. During the function control green LED "Switched on" has to light and red LED "Limit. Voltage" must not light.

If green LED "Switched on" does not light, the overfiring of safety fuse at the primary side of the transformer, the "interrupt" of return fuse at the secondary side of the transformer or another failure could be the cause of absence of input voltage on terminals. The safety fuse it is necessary to change for the same type. The return fuse will restore its function upon a couple of tens of seconds, as far as indeed the cause of "interruption" will disappear. If there is not possible to remove the failure and green LED will not light, there is necessary to provide a module repair at the Manufacturer.

If upon the module switching on the red LED lights, it indicates the function of voltage limiter. In this case there is necessary to provide the repair at the Manufacturer.

Likewise there is useful to check the screws tightening of the terminals. It is necessary to assure the suitable operating conditions, according to the technical conditions of the manufacturer.

Description of Terminals

Input terminal X1		Output terminal X2	
number	signal	number	signal
1	N	1	8 VDC, JB
2	L	2	GND

Chart - Terminal JBZ-01

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Certified according to EN ISO 9001:2000