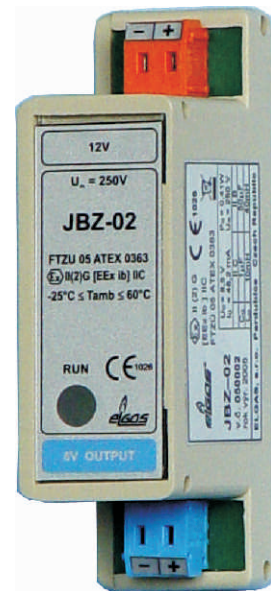


# INTRINSICALLY SAFE POWER SUPPLY

## JBZ-02

- Intrinsically safe power supply for gas volume correctors ELCOR-2 and microELCOR-2
- Powered with direct-current voltage 10,5 to 15 V DC
- Two variants - basic variant JBZ-02 and JBZ-02/A variant determined for feeding from accumulator



### Basic variant JBZ-02

Basic variant is determined for systems which are powered from mains voltage ( $U_m = 250V$ ). JBZ-02 may also be powered from not back-up mains power supply or from the source which is back-up with accumulator, charged with mains charger, etc.

Basic variant (JBZ-02) has got galvanic separation between input circuit and intrinsically safe output circuit.


### Variant JBZ-02/A

Manufacturing variant JBZ-02/A has got decreased consumption with comparison to basic variant. JBZ-02/A may be used for systems which are powered from accumulator only.

Accumulator may also be charged with solar panel ( $U_m = 60V$ ).

This manufacturing variant does not have got galvanic separation between input circuit and intrinsically safe output circuit (negative clamps of input and output are mutually interconnected).

## Technical data

<b>Mechanical parameters</b>	
plastic box	for assembly on DIN bar
dimensions (w x h x l)	27 x 42 x 96 mm (height without holder)
weight	0,06 kg
clamps	for connection of cables 1,5 mm <sup>2</sup>
<b>Environment</b>	
ambient temperature	-25 °C to +60 °C
protection class	IP20 (according to EN 60 529)
humidity	0 % to 95 % relative, without condensation
<b>Non-hazardous variant</b>	
classification	 II(2)G [EEx ib] IIC
ATEX approval	FTZÚ 05 ATEX 0363
max. value of voltage Um	250 V (variant JBZ-02) 60 V (variant JBZ-02/A)
classification of environment	- non-hazardous area - normal environment (according to 33 2000-3)
<b>Voltage</b>	
	12 V
range of supply voltage	10,5 V to 15 V
current consumption (off-load)	typically 27 mA at 14 V (JBZ-02) typically 2 mA (JBZ-02/A)
current consumption (short circuit on output)	max. 90 mA (JBZ-02) max. 55 mA (JBZ-02/A)
max. length of cable	30 m
<b>Output of source</b>	
	8V
off-load voltage	typically 8,2 V
current limitation	typically 46 mA
max. length of cable	30 m
galvanic separation	1500 V (only for variant JBZ-02)