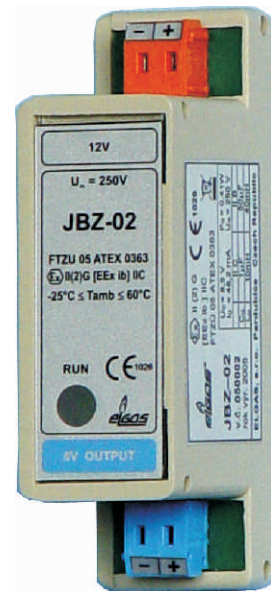


INTRINSICALLY SAFE POWER SUPPLY

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

Mechanical parameters	
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 ²
Environment	
ambient temperature	-25 °C to +60 °C
protection class	IP20 (according to EN 60 529)
humidity	0 % to 95 % relative, without condensation
Non-hazardous variant	
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)
Voltage	
	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
Output of source	
	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)