

Power failure indicator IVF-08-MOD for **early failure indication of safety elements.**

- Quick identification of circuit breaker and fuse failure
- Reliable remote monitoring
- Up to 8 inputs
- Indication of 3-phase elements, besides
- Communication RS 485, MODBUS RTU
- Simple DIN rail mounting



TECHNICAL DATA

Electrical data	rated voltage	24V DC (recommended value for power supply)
	power supply range	22 – 26V DC
	own device consumption	60 mA (max.)
Inputs	inputs number	8
	max. input voltage	250V AC
	min. input voltage	100V AC
	max. input frequency	60Hz
Communication	type	RS 485
	protocol	MODBUS RTU -SLAVE
	supported MODBUS functions	3
	max. device number for RS 485	32
	slave address	1-247
	stopbit	1
	parity	no
Operating values	galvanic isolation from power supply	yes
	cover	IP20
	operating temperature range	-20 to 65 °C
	relative air humidity	max. 80 %
	max. size of connected wires	2,5mm ²

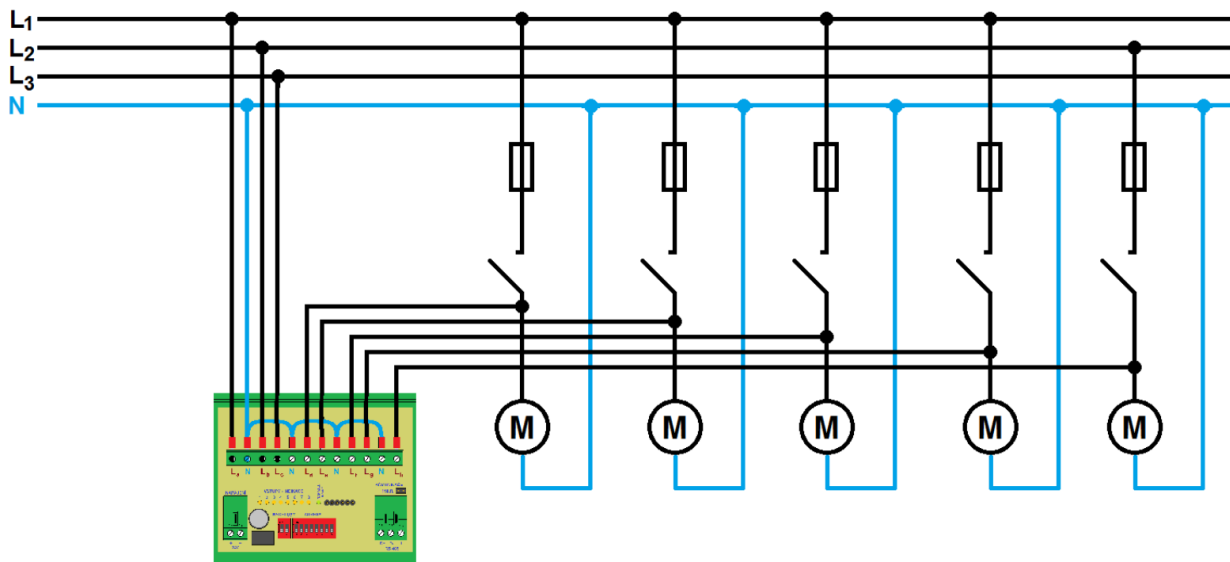
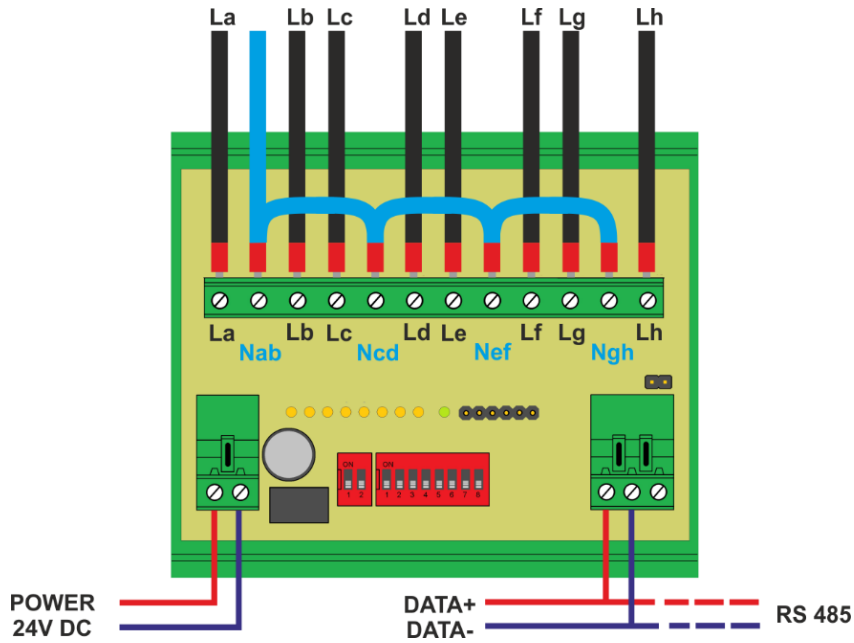
DESCRIPTION OF DEVICE FUNCTIONS

The device IVF-08-MOD is designed to monitor failure input voltage. It is used for early indication of circuit breaker failure or fuse failure on various controlled circuits. The control system (remote monitoring) gets feedback on the actual state of controlled circuits through the communication RS 485 MODBUS RTU. If mains voltage appears on input terminals of the device, then it is indicated by lighting of appropriate LED light and setting appropriate bit in the first register of the communication protocol, see the description of registers.

Electrical installation:

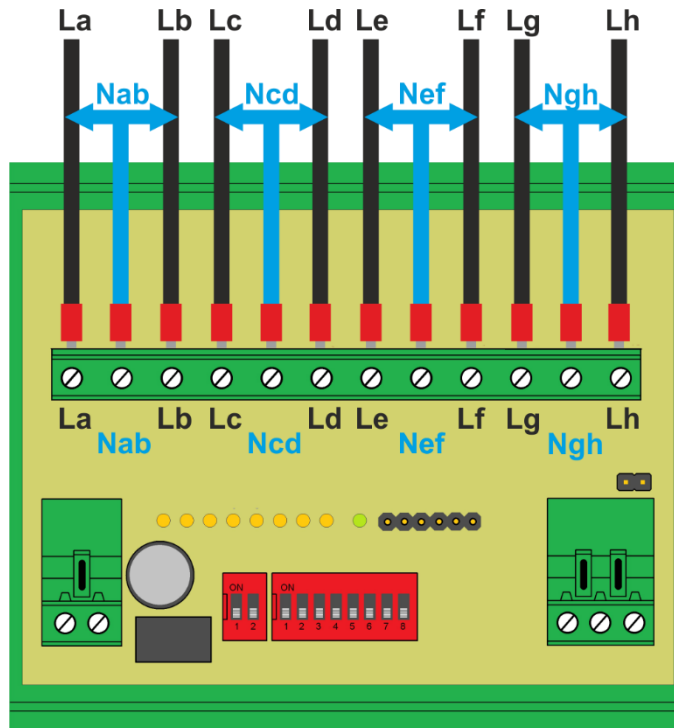
Example for connection of common neutral (necessary connection for correct inputs function):

It is necessary according to used inputs to connect sections and used inputs with neutral.

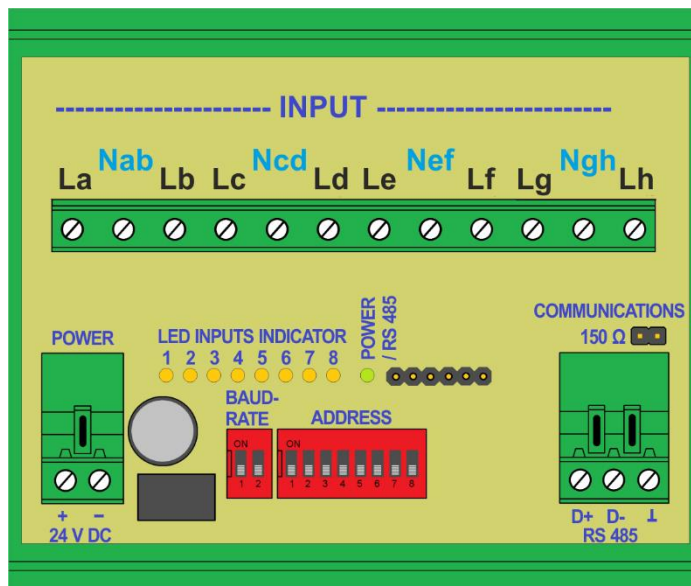


Partition of the neutral into section (illustration of connection in the device):

Connection of inputs to the neutral is divided into sections. The group of two inputs always has its common neutral. For example, the inputs La and Lb have common neutral [Nab](#).

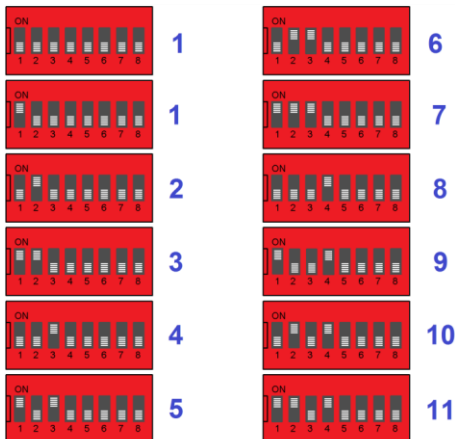


Description of the device:

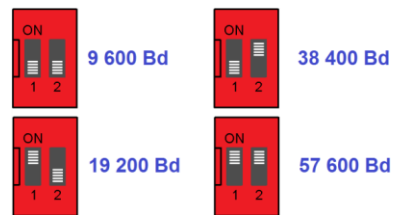


Communication RS 485:

Example of setting the RS 485 address:



Example of setting the RS 485 baud rate:



Description of communication:

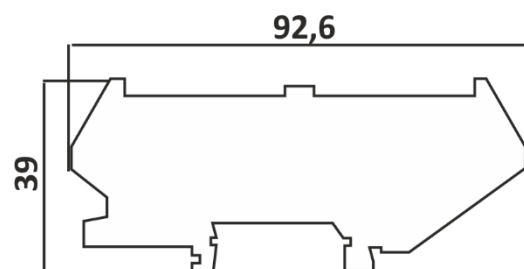
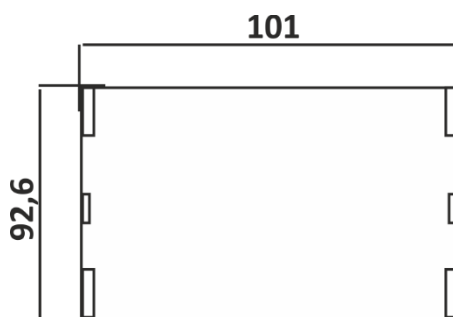
The device communicates as „slave“ on the bus RS 485 and protocol MODBUS-RTU. The function 3 (Read Holding Registers) is supported in this protocol.

Description of the MODBUS registers:

Register	Meaning	Value
1	It displays inputs state	0-255
2	Reserve	0
3	Reserve	0
4	Reserve	0
5	Reserve	0
6	Reserve	0
7	Reserve	0
8	Reserve	0
9	Reserve	0
10	Firmware - version	100-9900
11	Reserve	8A0A
>11	Reserve	0

Bit	8-15	7	6	5	4	3	2	1	0
Input	0	Input 8	Input 7	Input 6	Input 5	Input 4	Input 3	Input 2	Input 1

Size in mm:



History of changes

Tab. History of document changes

Date	Version	Changes
27.11.2018	V.01	Repair technical data