



Fuse state indicator MEg72



Characteristics

The fuse state indicator MEg72 is used for local and remote indication of the fuse-link with knife blade contacts in LV grid. It enables you to identify the states of fuses-link in LV network with parallel feeder or with distributed generation. The fuse state is indicated by the LEDs, by a contact and the galvanically separated RS485 interface for remote transmission. The indicator is fed by 12V DC voltage.

The fuse state indicator is produced in two designs. The MEg72c variant is designed for front installation of the fuse-link. The MEg72b variant is designed for installation on lateral side of the fuse-link and is used in fuse disconnecter LV rails *only*.

Function and construction description

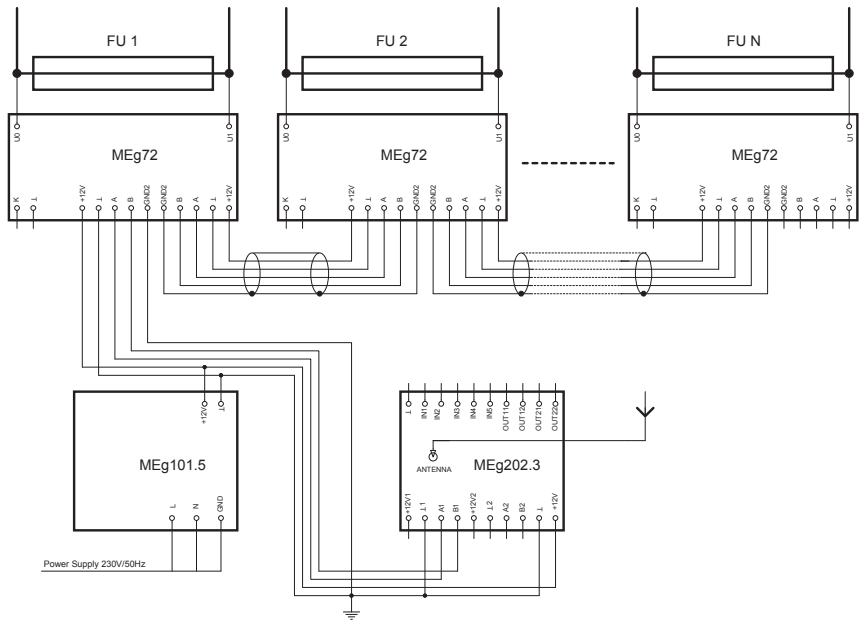
The MEg72 fuse state indicator measures the voltages in front of and behind the fuse and evaluates their difference statistically, based on which it will determine the state of the installed fuse. The indicator is functional if the voltage across the fuse is higher than 60% U_n .

The unbroken fuse is indicated with a short repeated pulse of the green LED for 2sec, the broken fuse is indicated with a shortly interrupted continuous light of the red LED for 2sec. The fuse state is transmitted by galvanically separated RS485 communication.

The MEg72 fuse state indicator is designed for knife-blade-contact fuse-links PN or PNA types with sizes 1, 2 and 3.

The indicator is fed with $12V_{DC}$ supply voltage. As the chain of indicators installed on the fuses of one LV switchgear is supposed, the individual fuses are interconnected with a shielded four-core cable to provide the indicators with power and serial communication, see Fig.1. It illustrates the GPRS remote communication unit MEG202.3 and the power supply MEG101.5 with overvoltage category CATIV/300V. The indicator has a two-pole socket connector with signaling contact to indicate fuse wire interruption.

Fig.1 Wiring of the MEG72 indicators in LV switchgear with remote communication



Technical parameters

The MEG72 fuse state indicator is designed for knife-blade-contact fuse-links PN or PNA types with sizes 1 (01), 1, 2 (02), 2, 3 (03) and 3.

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|-----------------------|--|
| LV level: | $U_n = 230V, f_n = 50\text{ Hz}$ |
| Indication scale: | $60\% U_n \text{ to } 120\% U_n$ |
| Power, consumption: | $12V_{DC}, 30mA_{DC}$ |
| Supply voltage range: | $9V_{DC} \text{ to } 15V_{DC}$ |
| Communication: | RS485, 115.2 kbit/s |
| Overvoltage category: | CATIV/300V |
| EMC: | EN 61326-1:2006 |
| LED signaling: | green – OK, red – fault |
| Contact signaling: | switch open – OK, switch close – fault |

Manufacturer

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