

EARTH-FAULT INDICATOR TYPE EASI-R

surface-mounted

General description

The earth-fault indicator type EASI can be used in radial networks with one input and open-ring networks which are solidly earthed or low resistance-earthed. The device detects earth-faults by measuring the sum current of the monitored network.

The EASI is available in two versions:

EASI: indication of an earth-fault by one LED

EASI-R: indication of an earth-fault by one LED and one flag indicator

The earth-fault indicator consists of one display unit and one sensor. The display unit can be mounted onto walls and panels, also in outdoor weather conditions.

The indication of earth-faults is performed by one LED and one flag for optimum nighttime and daytime visibility.

The sensor has a rigid housing and the interior fully sealed from the environment. It is connected to the display unit by a copper cable and must be mounted on screened cable sections. The sensor can be retrofitted in existing installations because the sensor is divisible.

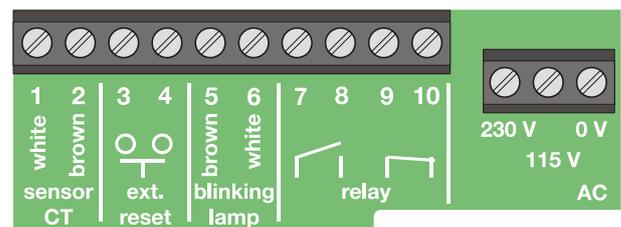


Features and options

| | |
|---------------------------------|--|
| Permanent earth-faults: | Indication of permanent earth-faults by double blinking of the earth-fault LED. |
| Power supply: | By 110/230 V AC +/- 10% with lithium backup battery type AA |
| Manual reset: | By push button on the front of the housing |
| Remote reset: | Device can be remotely reset through one external contact. |
| Automatic reset: | Automatic reset on recovering net current or recovering power supply 110/230V AC supply |
| Optional inrush current filter: | Suppression of inrush currents up to 3 seconds (custom value can be ordered, 230V AC input required.) |

External connectors

| | |
|------------------------|--|
| Connector 1 - 2: | earth-fault sensor (CT) |
| Connector 3 - 4: | remote reset |
| Connector 5 - 6: | external blinking lamp (Type BL4.1 + BL6) |
| Connector 7 - 8: | SCADA contact NO |
| Connector 9 - 10: | SCADA contact NC |
| Connector 0-115V-230V: | external AC power supply |

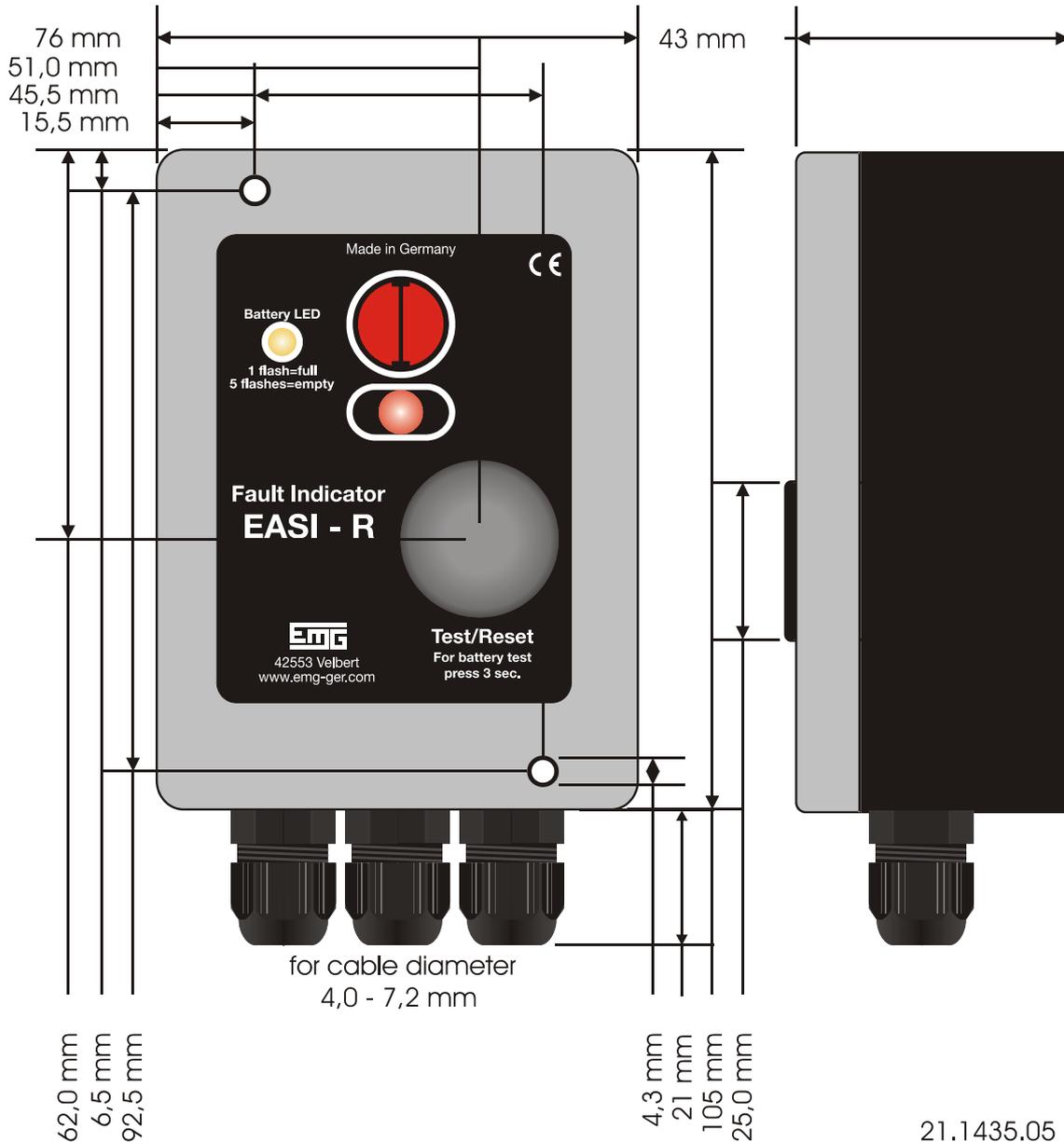


General Data

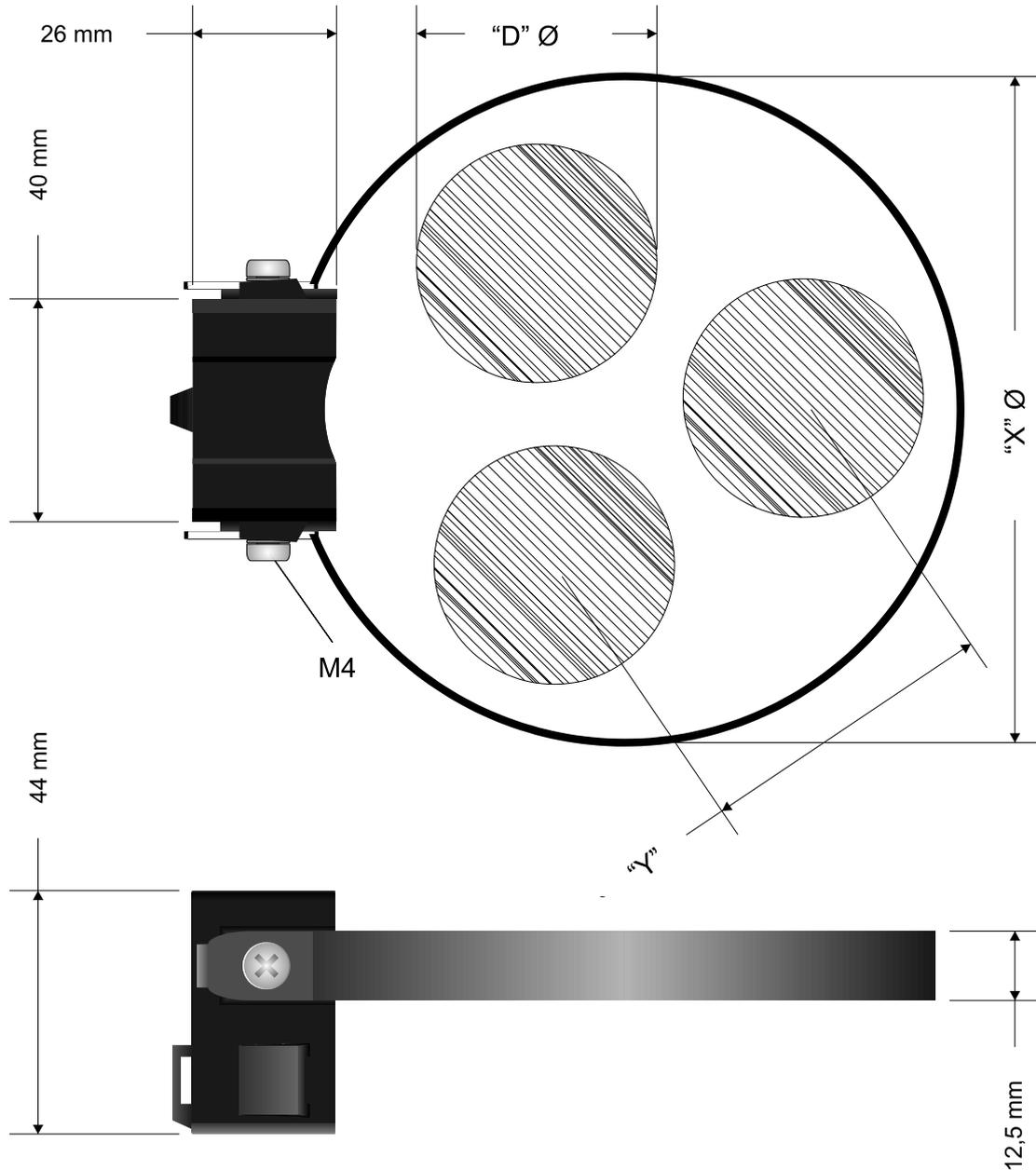
| Subject | Value |
|--|---|
| Earth-fault trip current | adjustable: 20 / 25 / 35 / 50 / 80 A * (± 10 %) |
| Response delay | adjustable: 40 / 50 / 60 / 80 / 100 / 160 / 300 / 1000 * ms |
| Indication unit | suitable for surface installation |
| Indication of earth-faults | one red LED one flag indication |
| Indication low battery status | one yellow LED |
| Reset of the indicator | a) manual by push-button b) connection for a potential-free remote reset c) time: 1 / 2 / 4 / 8 * hours after fault d) self-acting after recovering of network current (on/off) d) self-acting after recovering of 110/230 V AC |
| On site function test a) function test b) battery test | by push-button a) the button has to be pressed for 1 second b) the button has to be pressed for 3 seconds |
| Remote reset | by closing potential-free remote reset input (connectors 3-4) duration: 1 to 5 seconds |
| Dimensions: display unit | (WxHxD) 76mm x 126mm x 43mm |
| Protection class: display unit | IP65 |
| Protection class: sensors | IP67 |
| Internal type test | according to IEEE 495-2007 |
| Operation temperature range | -25°C to +70°C |
| Maximum humidity | 95 % |
| Power supply | 110 / 230 V AC ± 10 % with lithium backup battery type AA / 3.6V / 2600 mAh |
| SCADA contacts | 1 x NO for earth-fault indication 1 x NC for earth-fault indication permanent / wipe contact (100 * ms) (contact type can be selected on site by a dip switch) max. 230 V AC / max. 2 A / max. 30 W |
| Earth-fault sensor (CT) | one earth-fault sensor type SE (current transformer for a three-core cable or three single core cables) diameter: 110-130 * mm connection cable length: 15 * m (copper cable) |

* **Please note:** Other values can be ordered.

Display unit



Sensor type SE



Sensor (CT) is fixed to the monitored cables with a cable tie.

Verbindungskabel/connection cable:

- LIYY 2 x 0,5 mm²
- PB-free
- Ø = 5 mm
- length customer specific

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