

EARTH-FAULT INDICATOR

TYPE EASI

panel-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 EASI is available in two versions:

EASI: indication of an earth-fault by one LED

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

The indicator set consists of one display unit and one sensor (CT).

The connection between the earth-fault sensor and the display unit is done by cable. The sensor must be mounted on screened cables. The sensor is divisible and can be retrofitted on the cable.

The earth fault indicator detects the earth fault by measuring the sum current of the monitored network with one sensor (CT).



Features and options

Permanent earth-faults:	Indication of permanent earth-faults by double blinking of the earth-fault LED.
Power supplies:	lithium battery (LiSOCl ₂) type AA / 3.6V / 2600 mAh Optional: 10-110 V DC or 110 / 230 V AC power supply with optional lithium backup battery
Sensor reset:	Automatic reset on recovering net current
Optional reset input:	For reset by recovering external power 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 6 - 7:	earth-fault sensor (CT)
Connector 8 - 9:	remote reset input
Connector 10 - 11:	external blinking lamp (Type BL4.1 + BL6)
Connector 12 - 13:	SCADA contact NO
Connector 14 - 15:	SCADA contact NC
Connector 16 - 17:	external power supply

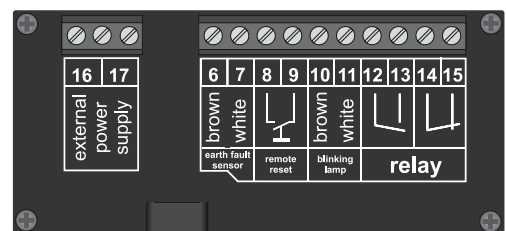
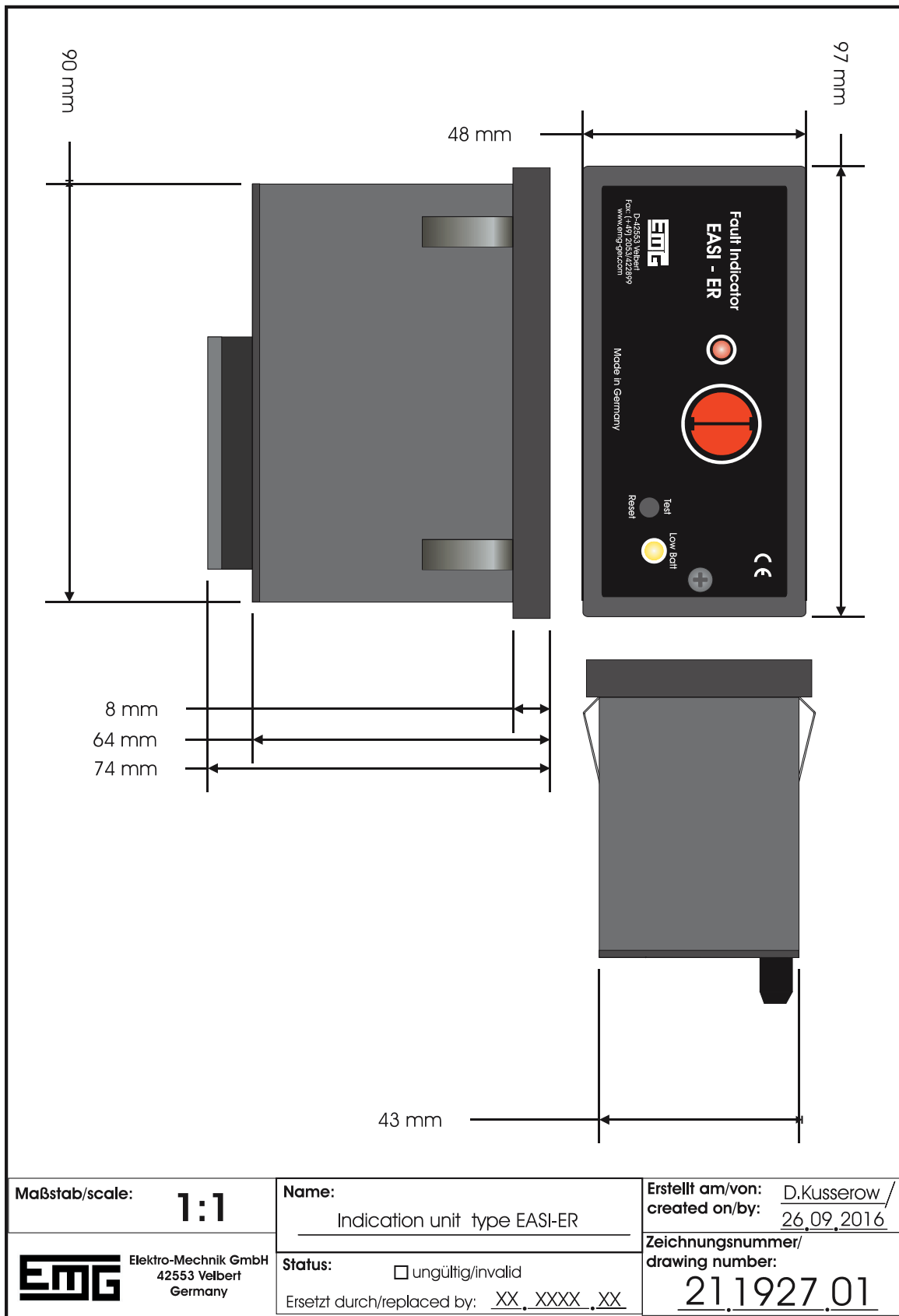



figure 1 - External connectors with optional power supply

General Data

Subject	Value
earth-fault current (phase to ground)	adjustable: 25 / 50 / 75 / 100 / 125 * A ($\pm 10\%$)
response delay	adjustable: 40 / 60 / 80 / 160 * ms
indication unit	suitable for panel installation
indication of earth-fault	one red LED EASI-ER: one flag indication
indication of low battery	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 (+/-1%) hours after fault d) self-acting after recovering net current (on/off) Optional: e) self-acting after recovering of 230 V AC (230V input required)
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
dimensions: indication unit	(WxHxD) 97 mm x 48 mm x 74 mm (dimensions of the cut out: 92+0.8 x 45+0.6 mm / IEC 61554 / DIN43700)
Protection class: indication unit	IP40
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	lithium battery (LiSOC12) type AA / 3.6V / 2600 mAh Optional: 10-110 V DC with lithium backup battery type AA / 3.6V / 2600 mAh Optional: 110 / 230 V AC with lithium backup battery type AA / 3.6V / 2600 mAh
SCADA contact	1 x NO and 1 x NC 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: 80-100* mm connection cable length: 3* m (copper cable)

* **Please note:** The values shown are standard values. Other values can be ordered.



Maßstab/scale: 1:1	Name: Indication unit type EASI-ER	Erstellt am/von: D.Kusserow/ created on/by: 26.09.2016
 Elektro-Mechnik GmbH 42553 Velbert Germany	Status: <input type="checkbox"/> ungültig/invalid Ersetzt durch/replaced by: XX.XXXX.XX	Zeichnungsnummer/ drawing number: 21.1927.01

