

EARTH-FAULT INDICATOR

TYPE EASI-L

surface mounted

General description

The earth-fault indicator type EASI-L can be used in radial networks with one input and open-ring networks which are solidly earthed or low resistance earthed.

The connection between the earth-fault sensor and the display unit is done by a fibre optic cable. Therefore the connection from the sensor to the display unit is potential-free so that the earth-fault sensor can be mounted on screened and unscreened cables. But the earth-fault sensor must be mounted on insulated cables only. The sensor is divisible and flexible and can be retrofitted on the cable.



Features and Options

- Permanent earth-faults: Indication of permanent earth-faults by double blinking of the earth-fault LED.
- Configurable relay: Options for configuration:
 - permanent contact or wipe contact
 - NO or NC contacts
 At site configuration by DIP switch.
- Optional second relay: A second relay can be used for the remote indication of an empty battery
- Optional reset input: For reset by recovering auxiliary voltage supply (V DC or V AC).
- Optional power supplies: 10-110 V DC or 110/230 V AC power supply with optional lithium backup battery

External connectors

- Connector 1 - 2: optional external power supply
- Connector 3 - 4: remote test input
- Connector 4 - 5: remote reset input
- Optical terminal 1: earth-fault sensor
- Connector 14 - 15: external blinking lamp (Type BL4.1+BL6)
- Connector 16 - 17: SCADA relay contact (configurable as NO or NC contact)
- Connector 18: -not used-
- Connector 19 - 20: optional SCADA relay contact for low battery remote indication (configurable as NO or NC contact)

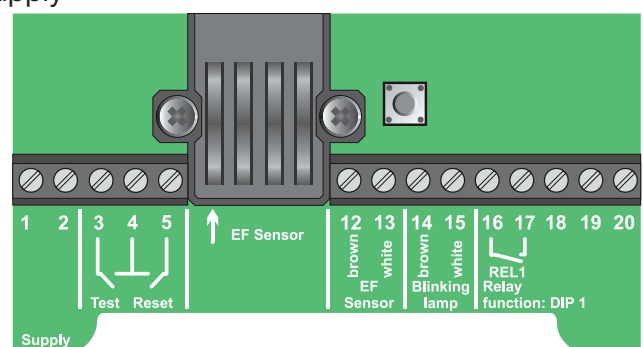
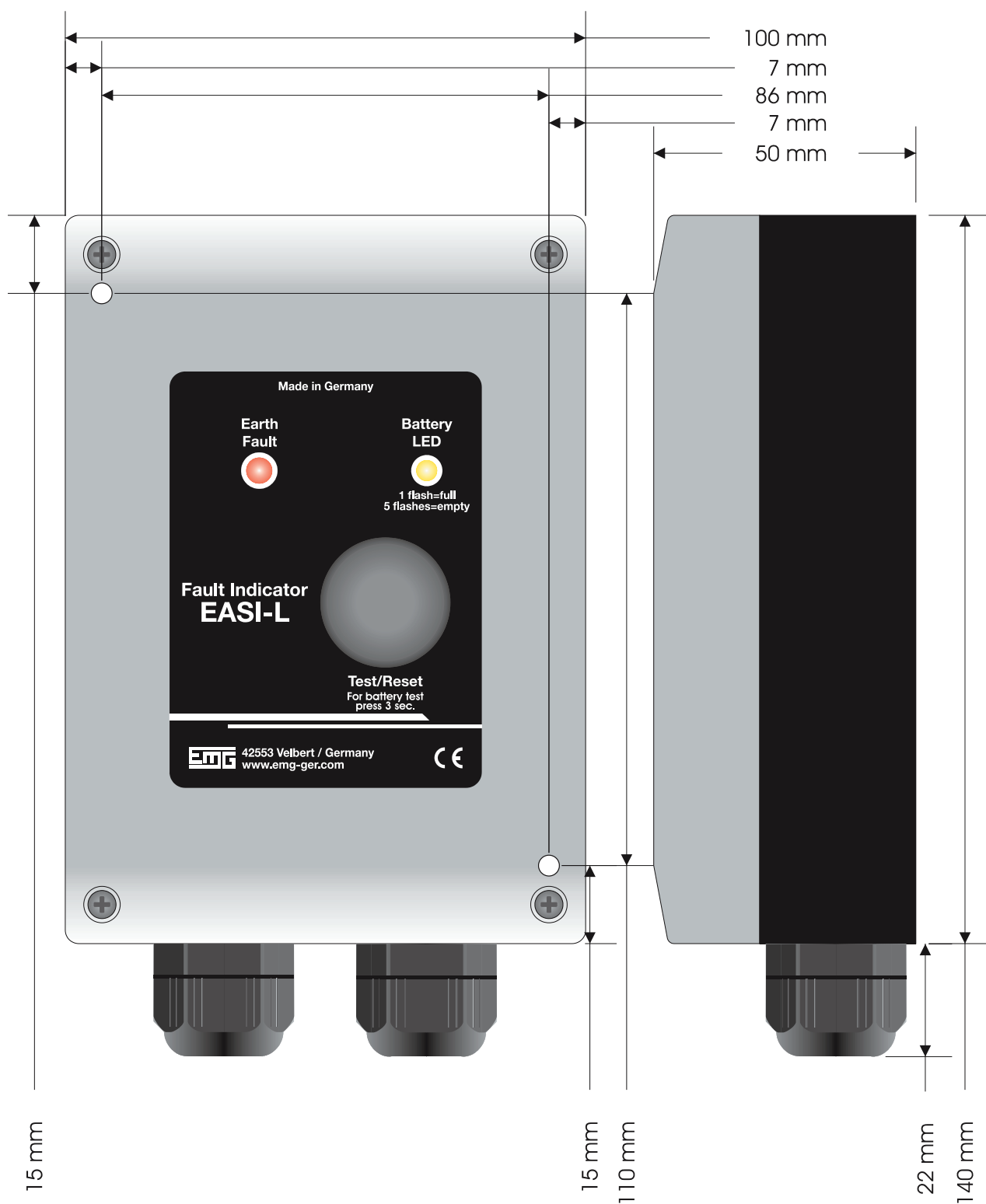


figure 1 - connectors

General Data

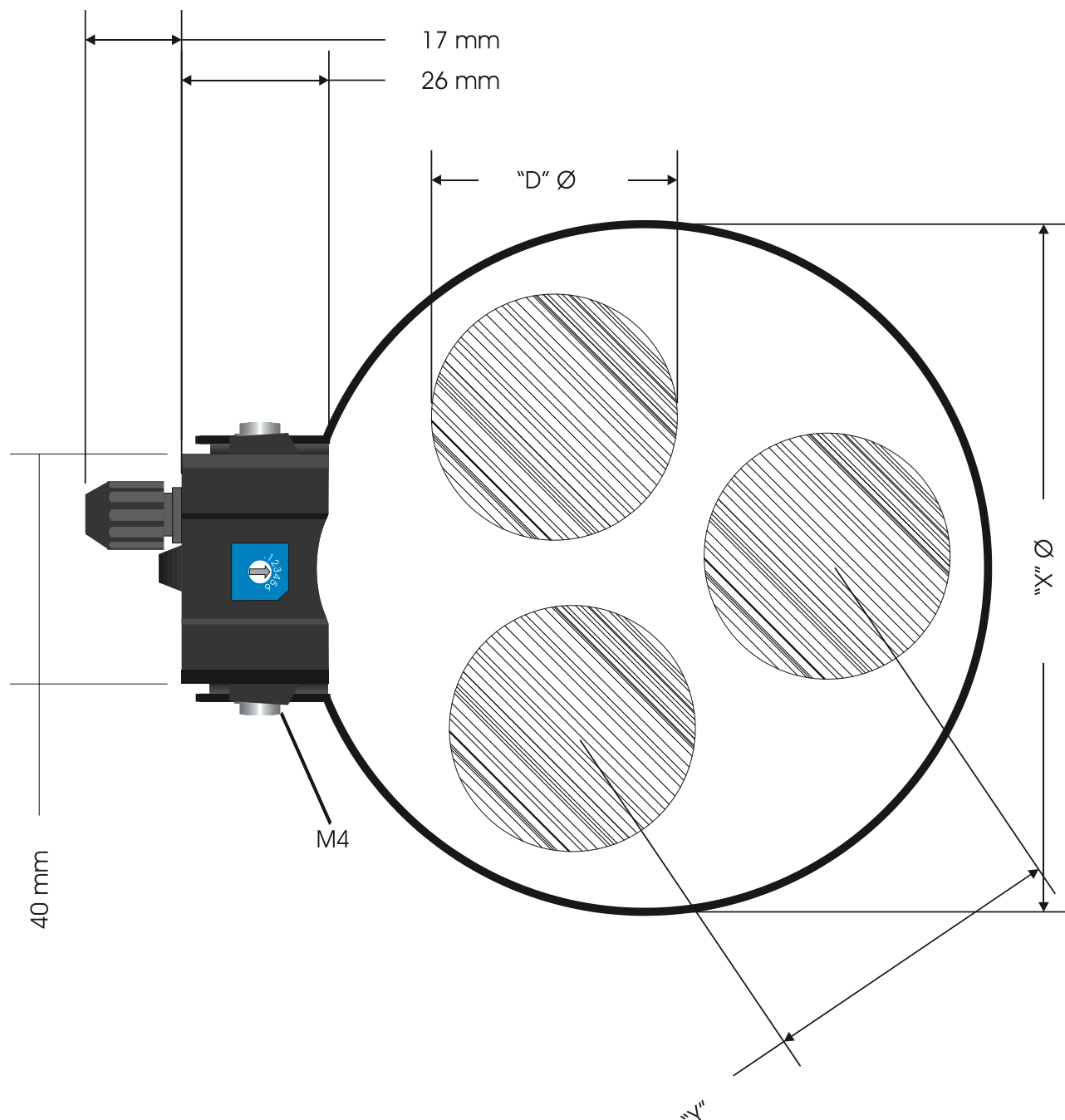
Subject	Value
earth-fault trip current (phase to ground)	adjustable: 10 / 20 / 30 / 40 / 60 / 80 / 100 * A ($\pm 10\%$)
response delay earth-fault	adjustable: 40 / 60 / 80 / 160 * ms
indication unit	suitable for surface installation
indication of a) earth-fault b) battery	a) one red LED for earth-fault b) 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 ($\pm 1\%$) hours after fault d) optional: self-acting after recovering of external power supply (on/off)
on site function test a) function test b) battery test c) remote function test	by push-button a) the button has to be pressed for 1 second b) the button has to be pressed for 3 seconds c) connection for a potential-free remote test
dimensions: indication unit	(WxHxD) 100 mm x 162 mm x 50 mm
Protection class: indication unit	IP65
Protection class: sensors	IP67
internal type test	according to IEEE 495-2007
operation temperature range	-25°C to +70°C
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	1x NO/NC contacts Configurable at site by DIP switch: - contact type (NO or NC) - permanent / wipe contact (100ms *) max. 230 V AC / max. 2 A / max. 30 W Optional: 1x additional NO/NC contact for empty battery remote indication (configurable at site)
earth-fault sensor (CT)	one earth-fault sensor type LE (sum current sensor for a three-core cable) diameter: 80-100* mm connection cable length: 3* m (fibre optic cable)

*PLEASE NOTE: other values can be ordered



21.2123.00

Earth-fault sensor type LE



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