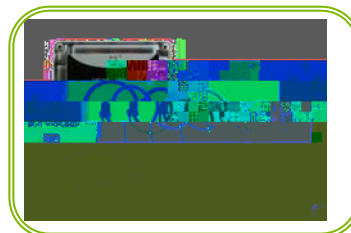
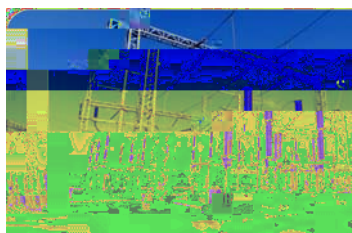




DFE-HH-C Catalogue

Underground Cable Fault Indicator



For Reliable, Secure and Economical Energy System Operation

Dongfang Electronics International Engineering Co., Ltd.
Dongfang Electronics Co., Ltd.

1. General Description

The DFE-HH-C underground indicator is used in 5~38kV cable line (underground) power distribution networks to monitor and locate short circuit and earth fault. The red LED in display unit will blink when short circuit and earth fault happens. The fault information will also be sent to SCADA system by external connection with IP Modem or RTU/FRTU. DFE-HH-C underground fault indicator consists of:

- 1 PCS Display Unit:** Wall-mounted with LED indication
- 1 PCS Sensor:** Earth-fault detection, cable connection
- 3 PCS Sensor:** Short circuit detection, cable connection

2. Features

Fault Indication:	Indication of Earth-Fault by Ultra-bright blinking red LED. Indication of transient and permanent short-circuit by ultra-bright blinking red LEDs, L1, L2, and L3. Indication of Low Battery alarm by ultra-bright blinking yellow LED.
I/O Interfaces:	1 x DI for SCADA RESET, support 9-38VDC voltage input range. 2 x DO, 2 relays output connect to SCADA, one is for short-circuit and earth-fault alarm (NO), another is for Low battery alarm (NO or NC is selectable by Jumper inside). 1 x external LED lamp interface for Earth-Fault indication. 1 x manual push-button for I/O Inhibit

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	Support internal 3.6VDC replaceable lithium battery.
Multiple Reset Method:	Timer reset; Push Button reset; AC 220-240V reset; SCADA Reset (DI); Communication Reset (MODBUS).
Dual Manual Push-button Test Mode:	Short press (1 sec); Long press (3 sec).
Flexible Parameter Setting Method:	By DIP 7 æj Ą tÔ 7/8 l ec ħp ſ Ů A !

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	default 50ms, adjustable by DIP switch or MODBUS(20-60000ms settable, 1ms step), support customization.
Power Supply	Internal Battery:3.6V/2.7Ah lithium battery(replaceable), battery service life about 8 years. External Power Source: 5-36V DC (Optional)

Interface

Serial Port: 1* RS485

Data bits: 8; Stop bits: 1; Parity: none; Baud Rate: 9600 bits/s

I/O Interface:

1*DI: 9-38V DC input

2*DO: Maximum switching voltage 250VAC/30VDC Maximum switching current 5A

1*External LED lamp interface

AC Input: 1*AC220-240V voltage recovery interface

Power interface for 10-36VDC input

Backup power (battery) switch, switch the power supply of the device

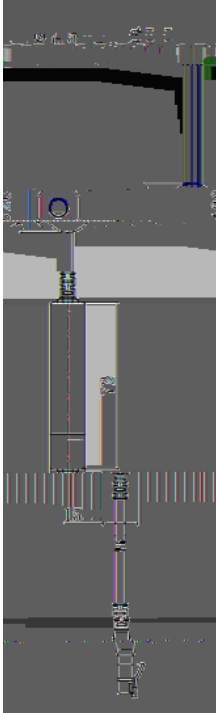
DFE-HH-C Undergr

5. CT Dimension

Short circuit CT: $d=80\text{mm}$

Earth fault CT: $d=110\text{mm}$

Cable length 6m/10m/16m optional, can be customized according to requirements.



Unit: mm

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