Remote Overhead Line Fault Indicators



JYZ-HW V2.0 Datasheet

Document Version: V2.1

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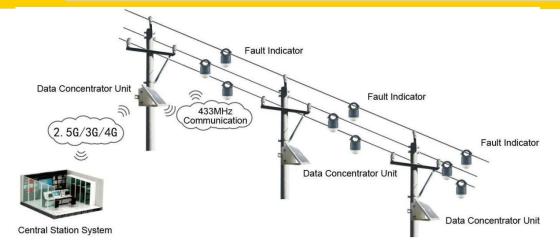
JYZ-HW Overhead Line Remote Fault Indicators is usually used in 5~38KV (can be customized by 44KV, 69KV and 110KV) overhead line power distribution network to monitor and detect short- circuit and earth fault. The fault signal is indicated by three ultra-bright blinking LEDs with 360° sight. The fault information and current value can also be uploaded to the SCADA by 2.5G/3G/4G networks.

The indicator can be mounted under live conditions with the help of an adapter and a hot stick. The parameters such as trip current, reset time, blinking interval, etc., can be read and adjusted by a bidirectional wireless tool. Permanent fault, transient fault and battery low voltage alarm can be distinguished and indicated separately by 3 different ultra-bright blinking LEDs. And the earth-fault can be indicated by two alternating different ultra-bright blinking LEDs.

The earth-fault and short-circuit fault indicator type JYZ-HW consists of:

- 1) 1 pcs DCU: Transmission fault and load current value to SCADA
- 2) 3 pc indicators: short-circuit and earth fault detection and indication

Topology



Features

Permanent Fault: Red ultra-bright blinking LED.

Transient Fault: Green ultra-bright blinking LED.

Earth-fault: Red and green ultra-bright LEDs blinking alternately.

Low Battery Warning: Yellow ultra-bright blinking LED.

Parameter Adjusted: The parameters can be read and adjusted by bidirectional wireless tool.

Remote Transmission: DCU can transmit data to SCADA system.

Power Supply: The indicator can take power from overhead lines, with lithium battery as backup.

The DCU can take power from solar energy with lithium battery backup.

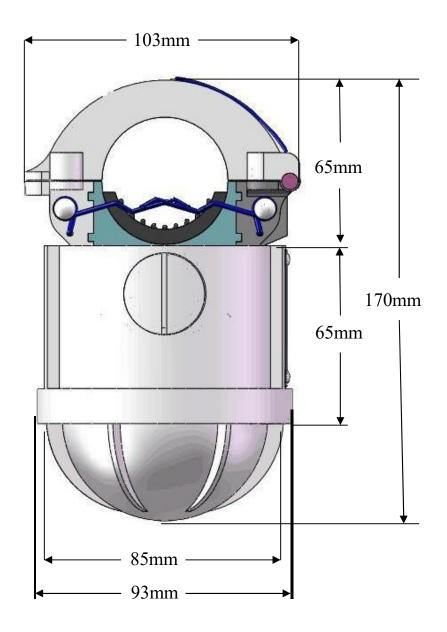
Add: 11th Floor, A-06 Area, No.370, Chengyi Street, Jimei, Xiamen, Fujian, China

Web: http://en.four-faith.net Tel: 17750019379 Email: business@four-faith.com

General Data

Subject	Value
Short-circuit Trip	
Current (Phase to	50~1200A adjustable, 1A step, 150A default
Phase)	
Earth-fault Voltage	
Drop (Phase to	Adjustable: 1% step, 30% default
Ground)	
Earth-fault Response	Adjustable: 1 second step, 30s default
Delay	
Indication Unit Reset	1. manual by magnet.
	2. remote reset through SCADA system
	3. time reset: adjustable, 1 second step, 24h default, max. 48h
	4. Auto delay reset after repower, 1 second step, 30s default
	max 5min, only for permanent fault
Protection Class	IP68
Internal Type Test	According to IEEE495-2007
Operation	-40~+70°C
Temperature Range	
Power Supply	Lithium battery type AA 3.6V / 9Ah, replaceable
Battery Life	Approx. 10 years
Indicator weight	approx. 590g
DCU weight	approx. 3.6Kg
Dimensions	Diameter: 93mm
	Height: 170mm
Accuracy	$0A\sim300A\pm3A$
G 11 D	$300A\sim800A\pm1\%$
Cable Diameter	6mm~45mm
Ranges	10 ' 4 11
Blinking Frequency	10 per minute, adjustable 1200A
Max. Operating Current	1200A
Maximum Operating	5~38KV, can be customized to 44KV, 69KV and 110KV
Voltage	
Max. Fault Current	31.5KA/4s
Communication	433MHz from indicators to DCU
	2.5G/3G/4G from DCU to SCADA
Communication Protocol	Indicator to DCU: private
	DCU to SCADA: IEC101, IEC104, DNP3.0, Modbus

Dimension



Order Info

Item	Content
Туре	Local type(3 pcs indicators)□ Remote type(3 pcs indicators+1 DCU)□
Parameter	Voltage level: KV, Frequency: Hz
	SIM card quantities: $1\square/2\square$
Accessories	DCU: Solar panel□ Battery□ Housing□ DC adapter□