## **Remote Overhead Line**

## **Fault Indicators**



**JYZ-FF Datasheet** 

Document Version: V2.0.2 Date: 16<sup>th</sup> Nov. 2020



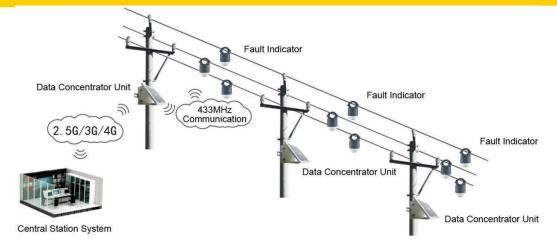
JYZ-FF Overhead Line Remote Fault Indicators is usually used in 5~38KV (can be customized by 44KV, 69KV and 110KV) overhead line power distribution network to monitor and detect short- circuit and earth fault. The fault signal is indicated by mechanical flag and three ultra-bright blinking LEDs with 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. Battery low warning can be distinguished and indicated locally by red mechanical flag

The earth-fault and short-circuit fault indicator type JYZ-FF 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**

Short Circuit: Indicated by red mechanical flag and three ultra-bright blinking LEDs. Earth-fault: Indicated by red mechanical flag and three ultra-bright blinking LEDs.

Low Battery Warning: Indicated by red mechanical flag

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.

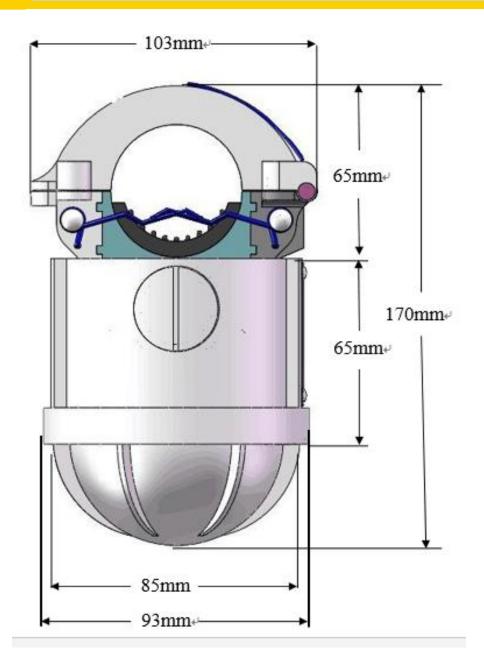
Note: fault types can't be distinguished locally, but you can get information from SCADA system

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

1

# **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	
Indicator Battery	Lithium battery type AA 3.6V / 2.7Ah, replaceable
Battery Life	10 years
Indicator weight	approx. 620g
DCU weight	approx. 3.6Kg
Dimensions Accuracy	Diameter: 93mm
	Height: 170mm
	$0A \sim 300A \pm 3A$
	$300A \sim 800A \pm 1\%$
Cable Diameter	6mm~42mm
Ranges	10 11
Blinking Frequency	10 per minute, adjustable
Max. load/fault current	1200A
Voltage range	5~38KV, can be customized to 44KV, 69KV and 110KV
Current withstand	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



# 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□