Overhead Line
Remote Fault Indicators

Four-Faith ® 让 万 物 更 加 智 慧
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JYZ-FF-FI Specification

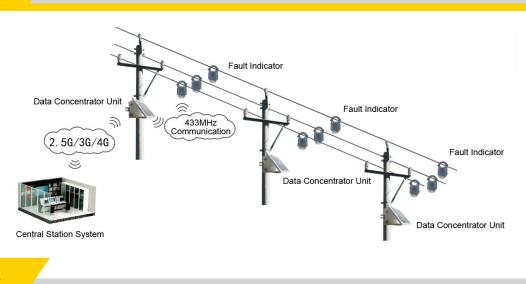| Vision	
V1.0.1	

JYZ-FF-FI Overhead Line Remote Fault Indicators is usually used in 5~38KV 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 360º sight. The fault information and load current value can also be uploaded to the SCADA by 2G/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 level, reset time, blinking interval, etc., can be read and adjusted by a bidirectional wireless tool. Battery low warning can be distinguished and indicated separately by red mechanical flag.

The short-circuit and earth-fault indicator type JYZ-FF-FI V1.0 consists of:
1*PCS DCU: Transmit fault signal and load current value to SCADA
3*PCS indicators: short-circuit and earth fault detection and indication
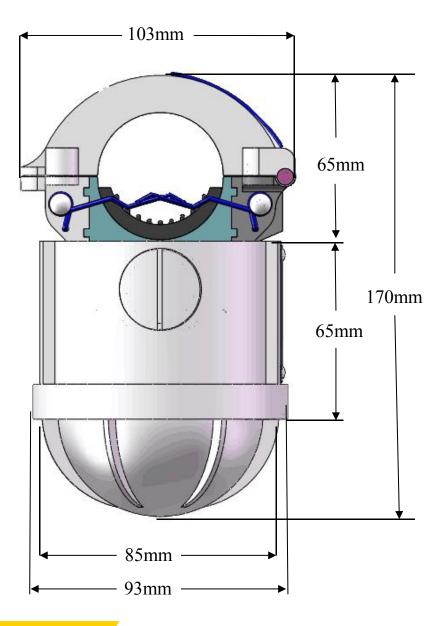
Topology

Features

Short-circuit Fault:	Indication of short-circuit fault by red mechanical flag and three ultra-bright blinking LEDs.
Earth-fault:	Indication of earth-fault by red mechanical flag and three ultra-bright blinking LEDs.
Low Battery Warning:	Indication of Low battery warning by red mechanical flag.
Parameter Adjusted:	The parameters can be read and adjusted by bidirectional wireless tools.
Remote Transmission:	DCU can transmit data to remote SCADA system.
Power Supply:	The indicator can take power from overhead lines, with lithium battery backup.
	The DCU can take power from solar panel, with lithium battery backup.

General Data

Subject	Value
Short-circuit Trip Current (Phase to Phase)	Adjustable, 1A step, 150A default
Earth-fault Voltage Drop (Phase to Ground)	Adjustable: 1% step, 30% default
Earth-fault Response Delay	Adjustable: 1 second step, 30s default.
Indication Unit Reset	1. Manual by magnet 2. Communications by wireless tools or DCU (optional) 3. Time Reset: adjustable, 1 second step, 24h default 4. Auto delay reset after repower, 1 second step, 30s default
Communication	433MHz from indicators to DCU 2G/3G/4G from DCU to SCADA
Maximum Operating Voltage	≦38KV
Protection Class	IP68
Internal Type Test	According to IEEE495-2007
Accuracy	0A~300A ±3A 300A~800A ±1% 800A~1200A ±2%
Blinking Frequency	20 per minute, adjustable
Power Supply	Lithium battery type AA 3.6V / 2700mAh, replaceable
Battery Life	Approx. 10 years
Cable Diameter Ranges	6mm~42mm
Current Withstand	31.5KA/2s
Operation Temperature Range	-40~+70℃
Dimensions	Diameter: 93mm Height: 170mm
Weight	<1kg

Dimension

103mm

65mm

65mm

170mm

85mm

93mm

Order Info

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