



DYX-KK type fault indicator

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1. Advantages

The ring network cabinet online monitoring equipment is mainly suitable for the automation transformation of the traditional ring network cabinet and the switchgear. While realizing two remote (remote signaling, telemetry) functions, detect and locate the position of short circuit and ground fault at the same time, shorten the power outage time and scope. Not only is important for improving the reliability of power supply, but also an indispensable technology for building an intelligent grid.

Sampling the zero-sequence current synthesis algorithm, canceling the traditional zero-sequence transformer design, synthesizing the zero-sequence current by detecting the phase sequence to identify the single-phase ground fault, and effectively solving the situation where it is not convenient to install the zero-sequence transformer;

5A self-powered, the acquisition unit uses high magnetic permeability material CT, combined with low-power system design, to ensure that the primary current 5A achieve battery-free full-function operation, improve reliability;

Instead of using the traditional one-time battery power supply scheme, the three-level power architecture of CT power supply, supercapacitors, and non-rechargeable lithium batteries is adopted to guarantee the reliable operation of the equipment;

Electronic current transformer for current and ground electric field detection, It has great linearity of test data and is not affected by wire diameter, thus guarantee test accuracy;

Collection unit indicates failures locally and centrally, eliminating the need to install display panels in every interval;

The energy opening CT is made of anti-rust and anti-corrosion materials, supplemented by a high-level cutting process to ensure that the outdoor environment provides sufficient power for the equipment;

Both the collection unit and the acquisition unit can be controlled remotely and wirelessly;

2. Technical Parameter

Item		Parameter
Applications	Voltage	6 ~ 35kV
	Neutral grounding method	Various grounding methods are available
	Wiring type	Overhead insulation and bare wires 35mm ² ~ 300mm ²
Collection unit power supply	Main power	PT/CT
	Backup power	Rechargeable battery: Lithium iron phosphate or lead-acid colloid battery is dependent on necessary. All hardware design is compatible for them both.
Acquisition unit power supply	Main power	Line self-powered (5A full-function operation)
	Backup power	Disposable lithium battery 3.6V, 8.5Ah Time of duration of the supercapacitor battery > 12 hours
Static power dissipation	Acquisition unit	≤40uA
	Collection unit	≤0.2VA
Telemetry accuracy	Current	0 ~ 200A, measurement accuracy: ±2A 200A ~ 600A, measurement accuracy: ±1%
Sampling frequency		4096Hz
Fault detection	Recognizable fault type	Short circuit between phases, various single-phase grounding
		Instantaneous faults and permanent faults
	Recognition minimum recognition time	0.2s
Line status indication	Indication	Bright LED
	Flashing time after an outage	> 2000h
	Fault reset method	Timed automatic reset can be set from 1 to 48 hours
Power-on automatic reset and remote manual reset		
Local communication	Frequency band	430 ~ 480MHz
	Communication medium	Plastic optical fiber
	Communication distance	> 20m
Mechanical properties	Weight	< 2kg
	Protection level	Acquisition unit IPX7; Collection unit IPX5
Working environment	Temperature	-40°C ~ 70°C 10%~
	Humidity	100%
Service life	Operating	> 8 years
	Failure-free time (average)	MTBF≥70000h

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