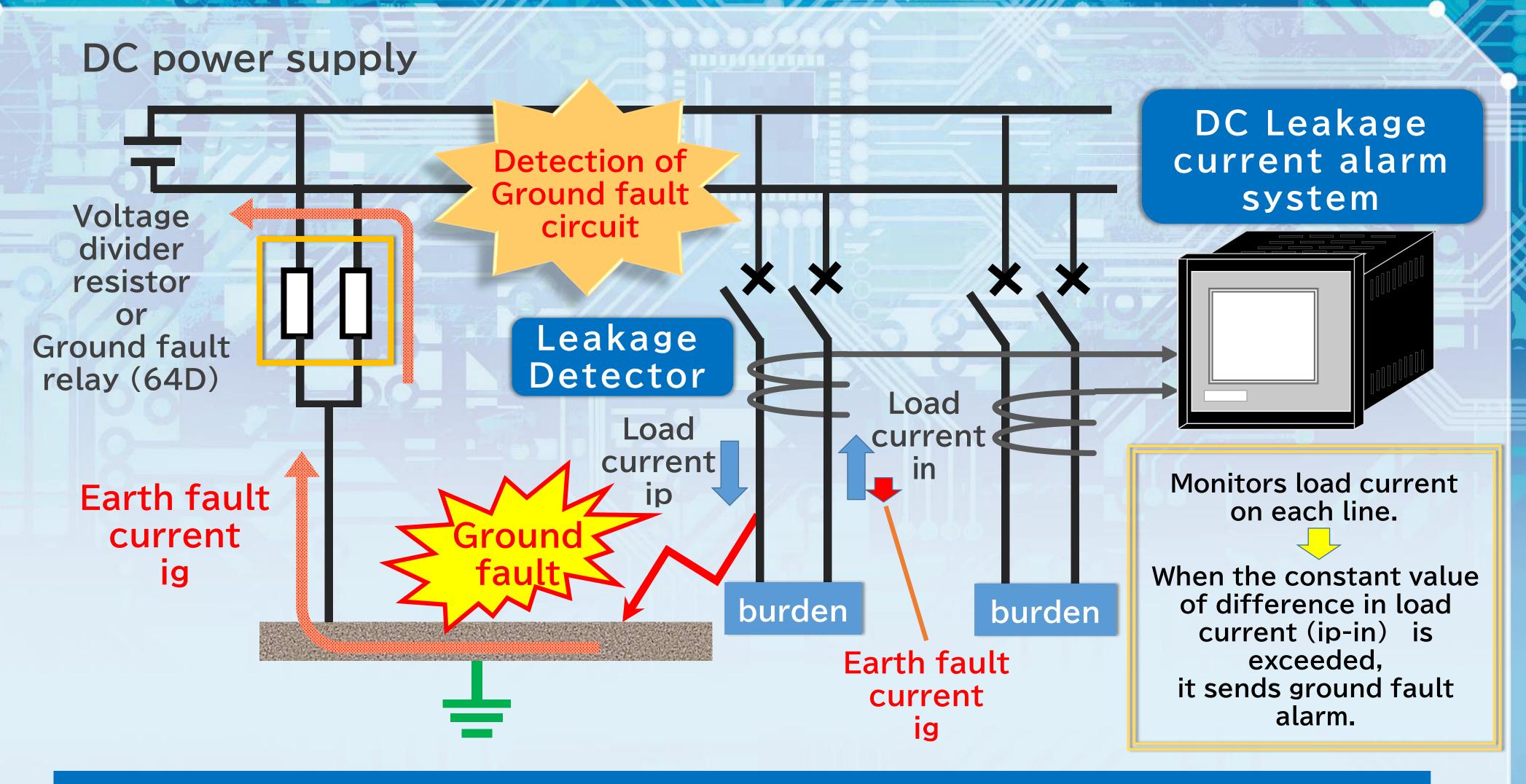
DC Leakage Current Alarm System

This system constantly monitors the DC control circuits of power plants and substations, etc., and detects ground faults on a circuitby-circuit basis. It detects, displays, and transmits warnings for earliest fault

recovery. It also has circuit insulation diagnosis function.

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Purpose and role of system/equipment

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The ground fault relay (64D) can detect ground faults on the P or N side of the DC power supply, but it cannot detect which line is involved in a ground fault. This device monitors the difference in load currents on each line to detect which line is involved in a ground fault. This identification makes it possible to help in the early restoration of DC control circuits.

Continuously monitors DC power supply for ground faults

The load current of the DC power supply is constantly monitored. If the difference in load current is greater than a set value (2 mA or more), it is detected as a ground fault, and an indication and alarm are sent out. Accident records, etc. are automatically saved to USB memory and can be viewed as CSV files.

Insulation diagnosis function in live wire condition (leakage current check)

The insulation status of the monitored circuit (1mA or more) can be checked with the DC main circuit.

Batch monitoring of multiple circuits

One single actuator can monitor two power sources and up to 128 leakage current circuits. (In the case of YGF-M2 type)

Equipment has self-monitoring function

It is equipped with a constant self-monitoring function to minimize maintenance.



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Basic Specifications

			DC power supply				
Control method	Microcomputer-controlled digital type	Alarm(2) Alarm (1) Detector1					
Detection sensitivity	2mA (during monitoring), 1mA (during insulation diagnosis)	ANN - Notice					
Resolution	0.03mA	Alarm(1) Notice Actuator Actuator Relay terminal					
Response speed	1 to 3 seconds (when ground fault current of 200% of set current occurs)	Alarm (1) Detector2 Notice Image: Detector2					
Control power supply	AC100 to 120V 50/60Hz	Power Transformer AC100V AC100V Detector3					
Operating temperature	0 to 40°C	Detector4					
Structure	Switchboard-mounted type	System configuration (YGF-M2 type)					

Specifications : YGF-M2 type (for large-scale (multi-circuit) facilities) *Max. 128 circuits

Name of device

Model

Dimensions W x H x D (mm)

(kg)

Mass (kg)

Actuator	YGF-M2TB-1	440 x 290 x 249.5	15.9		
Detector	YGF-M2K-1	440 x 320 x 290	16.9		
Relay terminal block	TBG-1	240 x 140 x 67	1.0		
Power	ATP-1	92 x 85 x 128	2.0		
Transformer	ATP-2	140 x 100 x 157	6.0	YGF-M2TB-1	YGF-M2K-1

Specifications : YGF-M3 type (for small-scale (small circuit) facilities) *Max. 16 circuits

Name of device	Model	Dimensions W x H x D (mm)	Mass (kg)	
DC current leakage alarm system	YGF-M3TB-1	440 x 290 x 378	22.8	
Power	ATP-1	92 x 85 x 128	2.0	
Transformer	ATP-2	140 x 100 x 157	6.0	



Specifications: Leakage current detector

Model	Rated value	Dimensions W x H x D (mm)	Through hole	Mass (kg)			₽ ₽ ₽
CTG-1S	DC 30A	50 x 66.5 x 75	Ф15mm	0.3			
CTG-2S	DC 100A	66 x 83.5 x 77	Φ27mm	0.5			
CT-6F	DC 300A	145 x 180 x 180	Φ50mm	5.2			
CT-6B	DC 600A	145 x 180 x 500	%6×35mm ²	8.9			
*thro	ough-hole b	oare copper strip			CTG-	1 S	CT-6F
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