HVD-Series

High Voltage Indicator

Description

The high-voltage live display device is a new type of non-contact high-voltage live detection device. It uses an integrated three-phase continuous display to test the voltage loss in the medium-voltage switchgear, which helps to ensure the safety of the power system. The device is not directly connected to the high-voltage live body Connection, can sense the electric field signal, accurately reflect the charging situation of the high-voltage electrified body, and has a reliable locking function.

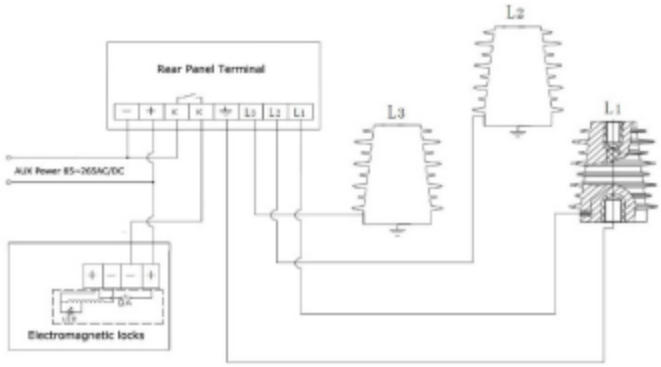
Main Features

- Multiple LED flashing modes;
- IEC 61243-5:2021 compliant;
- Threshold voltage 10%*Un<U<40%*Un;
- Wide auxiliary input range (85-265V AC/DC);
- 1 Change-over contacts for status monitoring;
- Single-phase/three-phase voltage indication.

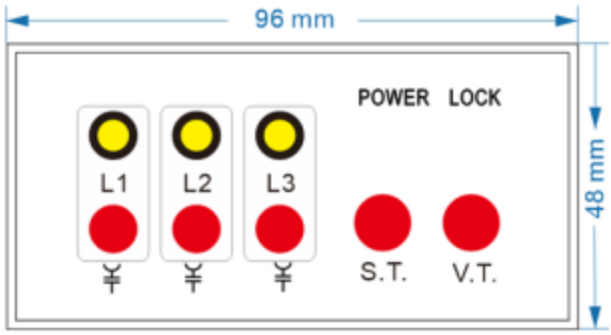
Application

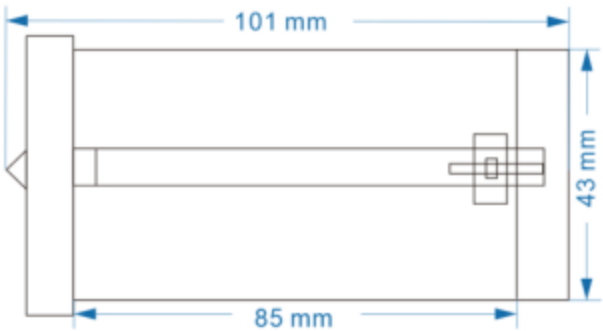
- High and low voltage switchgear;
- Ring network cabinet, outdoor terminal box;
- Transformer, circuit breaker, isolating switch;
- Power distribution room, bus-bar system;
- Mechanical control cabinet, motor control center (MCC);
- Outdoor distribution pillar, feeder terminal unit (FTU);
- Industrial plant power distribution cabinet, factory substation;

Wiring Diagram



Install Dimensions





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High Voltage Indicator

Technical Characteristics

Parameter	Value
Power supply	85-265VAC/DC
Rated voltage	7.2~40.5 KV
Power consumption	Less than 2W
Rated frequency	50-60Hz
Interlocking power supply	48VDC
Light-emitting element	Ultra-high brightness LED, operating voltage < 2.5 VDC, service life > 50,000 hours.
Digital output	Passive, dry contact, NO, load capacity: 5A@250VAC
Insulation	Input, output, power supply to shell >5MΩ
Withstand voltage	2 kV AC RMS 1 minute, between power supply to ground/ between relay contact to ground.
Standards	Compliant with IEC 61243-5:2021
Protection class	IP54
Installation dimension	96x48x43mm
Hole size	92*44mm
Working environment	-25~40°C Altitude ≤2000m, 0~95%RH, non-condensing, non-corrosive gas

Adaptation capacity parameter table:

Voltage Level (kV)	7.2	12	24	40.5
Adaptable Capacitance (pF)	150(±15)	115(±15)	80(±10)	45(±10)

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High Voltage Indicator

Selectable Model

HVD - 1 2 3 4

- 1 — Function type
- 2 — Hole size
- 3 — Power supply
- 4 — Additional functions

Num.	Code	Description
1	**T**	Indication type
	Q	Interlocking type
2	**92**	92×45 mm
	100	101×71 mm
3	**A**	AC power supply
	D	DC power supply
	N	Passive power supply
4	**H**	Phase sequence verification
	Y	Voltage presence detection
	Z	Self-test function