

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

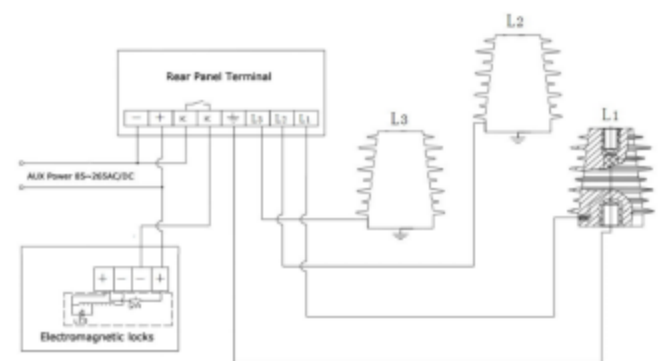
- Multiple LED flashing modes;
- IEC 61243-5:2021 compliant;
- Wide auxiliary input range (85-265VAC/DC);
- Threshold voltage $10\% \cdot U_n < U < 40\% \cdot U_n$;
- 1 Change-over contacts for status monitoring;
- Single-phase/three-phase voltage indication.

Application

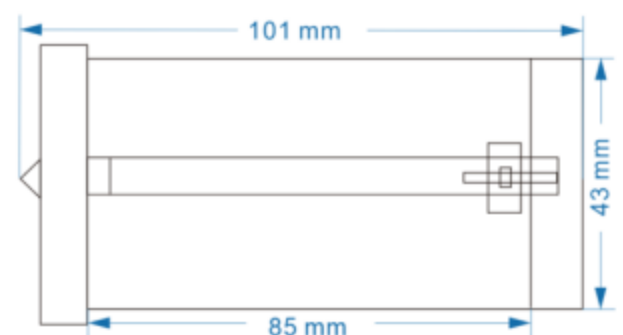
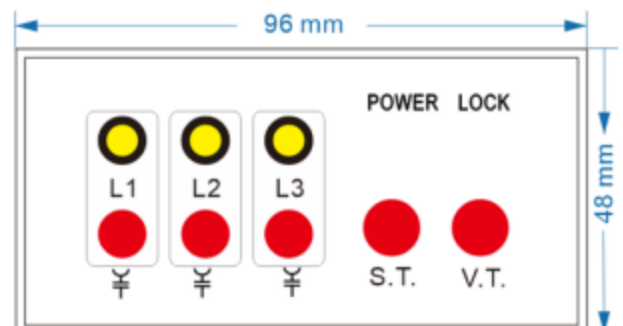
- High and low voltage switchgear;
- Ring network cabinet, outdoor terminal box;
- Transformer, circuit breaker, isolating switch;
- Power distribution room, bus-bar system;
- Mechanical control cabinet, motor control center;
- Outdoor distribution pillar, feeder terminal unit (FTU);
- Industrial plant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



Wiring Diagram



Install Dimensions



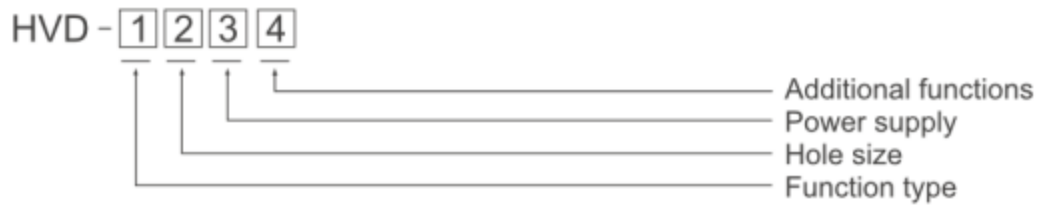
Technical Characteristics

| Parameter | Value |
|------------------------|---|
| Power supply | 85-265Vac/dc |
| Rated voltage | 7.2~40.5 KV |
| Power consumption | Less than 2W |
| Rated frequency | 50-60Hz |
| 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) |

Selectable Model



| 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 type |
| 4 | H | Phase sequence verification |
| | Y | Voltage presence detection |
| | Z | Self-test function |

Note: If select passive type (**N**) power supply, the self-test function (**Z**) is unavailable.