

High Voltage Detector

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.

The product meets the requirements of IEC 61243-5 and IEC 62271-213 standards, and is the first choice for indoor high-voltage electrical equipment to prevent accidental entry into live spaces and electrical misoperation. The device has the functions of flashing display, sound alarm, self-check, reset and start-up forced locking circuit. Cooperating with electromagnetic locks and microcomputer anti-misoperation locking functions, it is widely used in 7.2kV~40.5kV indoor and outdoor electrical equipment or networks. It is installed on line grounding switches, busbar grounding switches and busbar voltage change grounding switches to prevent The function of the charged grounding switch by mistake.

Features

- Fail-safe voltage testing and protection
- Integrated self-test function, with self-test button
- High voltage alarm, disconnection alarm
- Visual indication via bright LED or LCD screen
- No battery or auxiliary voltage maintenance-free
- Fully self-monitoring
- Three-phase live voltage indication system
- Electromagnetic lock automatic locking
- Relay signal output interlocking indication
- Phase sequence detection point.

Application

- Indicate the status of live electricity
- Ensuring the safety of the power system and the safety of personnel
- Prevent the staff from operating with electricity and causing safety accidents.
- Capable of locking high-voltage electrical equipment and
- Forcibly locking the door of switchgear
- Reflect status of high-voltage lines or high-voltage equipment

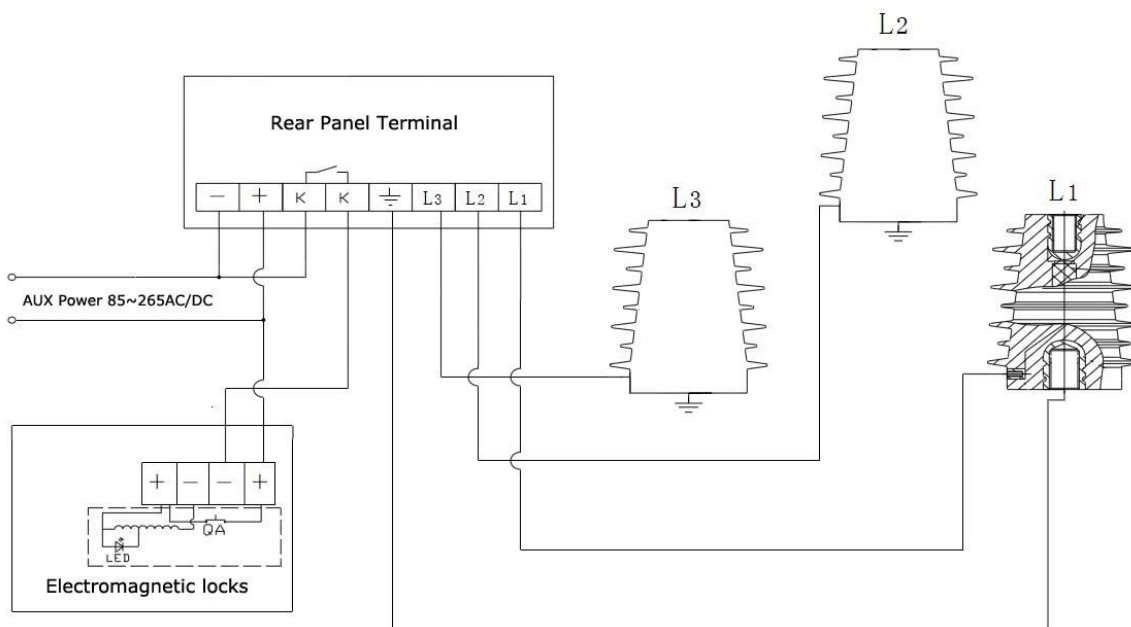
Specification

Basic parameter:	
Rated voltage:	24V/110V/220V
Voltage level	1..52 kV (Medium-voltage)
Contact capacity (Passive)	8A,250VAC/48VDC
Power consumption	<2W
Working frequency	50Hz/60Hz
Standard	IEC 61243-5 IEC 62271-213
Insulation strength	2kV,1min
Nominal Voltage	3-3.6kV, 6-7.2kV, 10-12kV 20-24kV, 35-40.5kV
Shielded Cable Length	2M,or customized by buyers
Threshold Values for Voltage Presence Indication	$U > 0.40 \times U_{nmin}$
Threshold Values for Voltage Absence indication	$U < 0.15 \times U_{nmin}$
Threshold Values for Over-voltage Protection	$U < 0.30 \times U_{nmin}$
Others:	
Front display	LCD/LED Display
Controls	Self-test button
Operating temperature	-25°C-55°C, RH<95%, Altitude: ≤1000m
Storage temperature	-30°C-75°C, RH<95%
Protection class	IP40/IP65
Type of interface	LRM
Lifetime	Minimum 31 years (MTBF)
Mounting Dimension (WxHxD)	Panel window size 92x45mm

Working Description

Number	Name	Status	Direction
1	Charged Indicator Light	Bright	This Phase Is Charged
		Dark	This Phase Is Not Charged
		Flashing	Sensor Offline Alarm
2	Power supply Indicator	Bright	Normal Working Condition
		Dark	Non-Normal Working Condition
3	Locking Indicator	Bright	Device Locked
		Dark	Device Unlocked
4	Self-Test Button	Press	Start System Self-Test

Product Wiring Diagram



Product Selection Table

High Voltage Detector				
	HVD-T	HVD-Q	HVD-S	HVD-QS
High voltage indication	•	•	•	•
Sensor offline alarm	•	•	•	•
Interlocking indication		•		•
Three-phase measuring point			•	•
High bright LED indicator	•	•	•	•

- Available function