

Capacitive High Voltage Detectors (Contact)



CE

213 HVD

FEATURES

- **Waterproof design, protection class: IP65**
- Excellent drop, shock, and vibration resistance
- Rugged nylon molding
- Auto on (when voltage is detected)
- Loud audible alarm indication
- Built-in proving and self-test circuit
- Bright color-coded LEDs
- Utilizes standard 9V battery
- Interchangeable contact electrode
- Useable in all weather conditions
- Compatible with all link sticks
- Lightweight, robust and compact
- Models available from 11kV~132kV
- Suitable for indoor and outdoor use
- Automatic or manual arming
- Accesses batteries easily
- Customized threshold voltage available upon request
- Auto off (if no voltage is detected)

This family of Capacitive High Voltage Detectors has been designed to meet the latest IEC standards. The HVDs are used to determine whether a system is live or not so that it may be safely earthed / grounded.

They are self starting and automatically activated when high voltage is applied to the contact electrode.

They can also be manually armed before use by depressing the "TEST / ARMING" button. The HVDs also have a low battery detection function.

These detectors are intended for use on sinusoidal signal (50 or 60Hz) high voltage systems.

Models are available to cover system voltages from 11kV to 132kV. Non-standard threshold voltages can be customized to suit application requirements. Utilized to determine if a system is live or not, so that it maybe safely earthed / grounded.

All models are designed for both indoor and outdoor use, in all weather condition.

Each HVD is housed in a rugged, reinforced nylon molded outer casing and is shock, drop and vibration resistant.

Non-standard threshold voltages can be customized to suit applications requirements

The HVDs have a low battery detection which inhibit manual arming when the battery is too low.

The HVD's outer casing is easy to clean and maintain. Each HVD is supplied with a cleaning kit and a carry case.

A visual indication shows when the HVD is armed.

When armed, the green LED indicator flashes about twice per second.

When high voltage is detected the red LED indicator flashes about twice per second, and the buzzer also sounds intermittently.

A range of accessories is available.

- Dimensions: 300(L) × 100(W) × 100(D)mm
- Weight: Approx. 550g (battery included)
- Meets EN 61243-1



(excludes 220HVD, 221HVD, 225HVD, 227HVD, 228HVD)

MODELS AND COMPARISON TABLE

PART#	213HVD	214HVD	215HVD	216HVD	217HVD	218HVD	219HVD	220HVD	221HVD	222HVD	223HVD	224HVD	225HVD	226HVD	227HVD	228HVD
System Voltage	11kV	33kV	66kV	132kV	11/33kV	44/132kV	66/132kV	6.6/132kV	11/132kV	11/44kV	33/132kV	44kV	kV USER DEFINED	12/36kV	10/40kV	9.2/33kV
Threshold Set within Range	1.65kV To 4.4kV	4.95kV To 13.2kV	11kV To 13kV	13.2kV To 59.4kV	3.3kV To 4.95kV	13.2kV To 19.5kV	13.2kV To 29.7kV	2kV To 3kV	4.4kV To 6.6kV	4.4kV To 4.95kV	13.2kV To 14.85kV	6.6kV To 17.6kV	Xx kV To Xx kV	3.6kV To 5.4kV	4.2kV To 4.4kV	3.9kV To 4.1kV
Response Time	<1 Sec	<1 Sec	<1 Sec	<1 Sec	<1 Sec	<1 Sec	<1 Sec	<1 Sec	<1 Sec	<1 Sec	<1 Sec	<1 Sec	<1 Sec	<1 Sec	<1 Sec	<1 Sec
Auto-OFF	3Min	3Min	3Min	3Min	3Min	3Min	3Min	3Min	3Min	3Min	3Min	3Min	3Min	3Min	3Min	3Min
Bridging Protection	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Spark Protection	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Battery Low	<7V	<7V	<7V	<7V	<7V	<7V	<7V	<7V	<7V	<7V	<7V	<7V	<7V	<7V	<7V	<7V
Threshold	3.02kV	9.07kV	12kV	13.2kV	4.12kV	13.2kV	13.2kV	2.5kV	5kV	4.75kV	13.2kV	12kV	User's Spec.	5.4kV	4.3kV	4kV
Battery Current	<30mA	<30mA	<30mA	<30mA	<30mA	<30mA	<30mA	<30mA	<30mA	<30mA	<30mA	<30mA	<30mA	<30mA	<30mA	<30mA
Green = Armed	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Red= V Detected	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Test / Arming Button	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES

Please note the internal proofing circuit does not test the contact electrode and the protection devices.