

# Capacitive High Voltage Detectors(Contact)



## Model: 902xx Series



This family of Capacitive High Voltage Detectors have been designed to meet the latest IEC standards.

Our 902xx Series are self starting and automatically activated when the High Voltage is applied to the contact electrode.

They can also be manually armed before use by depressing the "TEST/ARMING" button.

These detectors are intended for use on sinusoidal (50 or 60Hz) High Voltage Systems.

Models are available to cover systems voltage from 11kV to 132kV.

Our Detectors are utilized to determine if a system is live or not, so that it may be safely earthed/grounded.

All our models are designed for outdoor, but can be utilized indoor and in all weather condition.

This family of capacitive High Voltage Detectors are housed in a rugged, reinforced nylon moulded casing and are shock drop and vibration resistant.

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

The 902xx have a low battery detection which inhibit manual arming when the battery is too low.

The Nylon case is easy to clean and maintain and the 902xx are supplied with the cleaning kit.

A visual indication shows when the 902xx is armed. When armed, the Green Leds flashes about twice per second.

When High Voltage is detected, the Red leds flashes about twice per second and the buzzer also buzz intermittently.

### Features:

- Excellent Shock Resistance.
- Rugged Nylon moulding.
- Auto-ON(when Voltage Detected).
- Excellent Drop Resistance.
- Good Vibration Resistance.
- Loud Sound Alarm Indication.
- Built-in Proving and self-test circuit.
- High Bright Color Coded LEDs.
- Works from normal 9V battery.
- Interchangeable Contact Electrode.
- Use in All Whether Conditions.
- Compatible with all link sticks.
- Lightweight, Robust & Compact.
- Models available from 11kV to 132kV.
- Suitable for indoor and outdoor use.
- Self(Auto-ON) or Manual Arming.
- Easy access to batteries.
- Customized threshold on demand.
- Auto-Off(if no voltage detected).
- Meets IEC 61243-1/IEC 60068-2-2/IEC 60068-2-6

IEC 60068-2-32/IEC 60529



### Scope of Supply:

- 1pc 902xx high voltage detector
- 1pc carrying case
- 3pc metal hook (for hooking wires and cables)
- 1pc bottle of anti-static cleaning fluid and cleaning cloth
- 1pc 9V battery

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### Models and Comparison Table:

	<b>90212</b>	<b>90213</b>	<b>90214</b>	<b>90215</b>	<b>90216</b>	<b>90217</b>	<b>90218</b>	<b>90219</b>
System Voltage	4/15 kV	11kV	33kV	66kV	132kV	11/33kV	44/132kV	66/132kV
Threshold Set within Range	1.9-2.1kV	1.65-4.4kV	4.95-13.2kV	11-13kV	11-13kV	3.3-4.95kV	11-13kV	11-13kV
Threshold	2.0kV	3.02kV	9.07kV	12kV	12kV	4.12kV	12kV	12kV
Response Time	<1 Sec							
Auto-OFF	3 Min							
Bridging Protection	YES							
Spark Protection	YES							
Battery Low	<7V							
Battery Current	<30mA							
Green=Armed	YES							
Red=V Detected	YES							
Test / Arming Button	YES							

	<b>90220</b>	<b>90221</b>	<b>90222</b>	<b>90223</b>	<b>90224</b>	<b>90225</b>	<b>90226</b>
System Voltage	6.6/132kV	11/132kV	11/44kV	33/132kV	44kV	KV/User Defined	12/36 kV
Threshold Set within Range	2-3kV	4.4-6.6kV	4.4-5kV	11-13kV	6.6-17.6kV	X-X kV	5-6kV
Threshold	2.5kV	5kV	4.75kV	12kV	12kV	User's Spec.	5.4kV
Response Time	<1 Sec						
Auto-OFF	3 Min						
Bridging Protection	YES						
Spark Protection	YES						
Battery Low	<7V						
Battery Current	<30mA						
Green=Armed	YES						
Red=V Detected	YES						
Test / Arming Button	YES						

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