


*In Focus*

PHASE DETECTOR 3129 &lt; In Focus

## In Focus PHASE DETECTOR 3129



### Redesigned Phase Detector that assures absolute safety through non-contact measurement

HIOKI has entirely redesigned PHASE DETECTOR 3126 to create the new Model 3129.

In order to detect line phase, Model 3126 has to be connected by attaching clips directly to high-voltage electrified metallic objects in switchboards or connectors. Depending on the location, attaching the clips can be difficult and present safety hazards. In addition, reliable measurements may result if the metallic objects are not completely clean.

To resolve these issues, the new Model 3129 clips over the outside of conductors' insulation, enabling safe and easy phase detection at any point along the conductors. Four LEDs light in sequence to clearly indicate phase relationships even in dark environments, and positive or reverse phases can be indicated both visually and by an audible beeper.

The clips attach to conductors of up to 17 mm diameter at voltages between 100 and 600 V. To avoid battery depletion worries in the event that the operator neglects to turn the detector off, an auto-power-off feature turns it off about 15 minutes after turn-on. Continuous operating time on two common AA batteries is as long as 70 hours.

### Safety Assured

Model 3129 complies with CE Marking requirements and the CAT III 600V safety design category. Operation is very simple. The voltage detection function is first used to confirm that each phase is hot, after which all clips are connected to the phase lines. If all three lines are not hot, the circuit wiring needs to be checked before proceeding with phase detection.



### Easy Detection System

In Japan, Model 3129 is used on three-phase, three-wire circuits in which two of the three lines are hot and one is ground. Phase is detected when two of the lines are hot. In the three-phase, four-wire case, three lines are normally hot and the N line is ground. However, phase may be detected even if only two lines are hot. Please note that in this case, the measurement method is different from that of Model 3126. Because of the characteristics of the measurement method, it is not possible to distinguish between the ground line and the line with missing voltage (phase).

Of course the Model 3126 continues to be available for direct-contact phase detection applications.

Click [here](#) for more details or [download](#) the catalog today.

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