

# **BOWDENS**

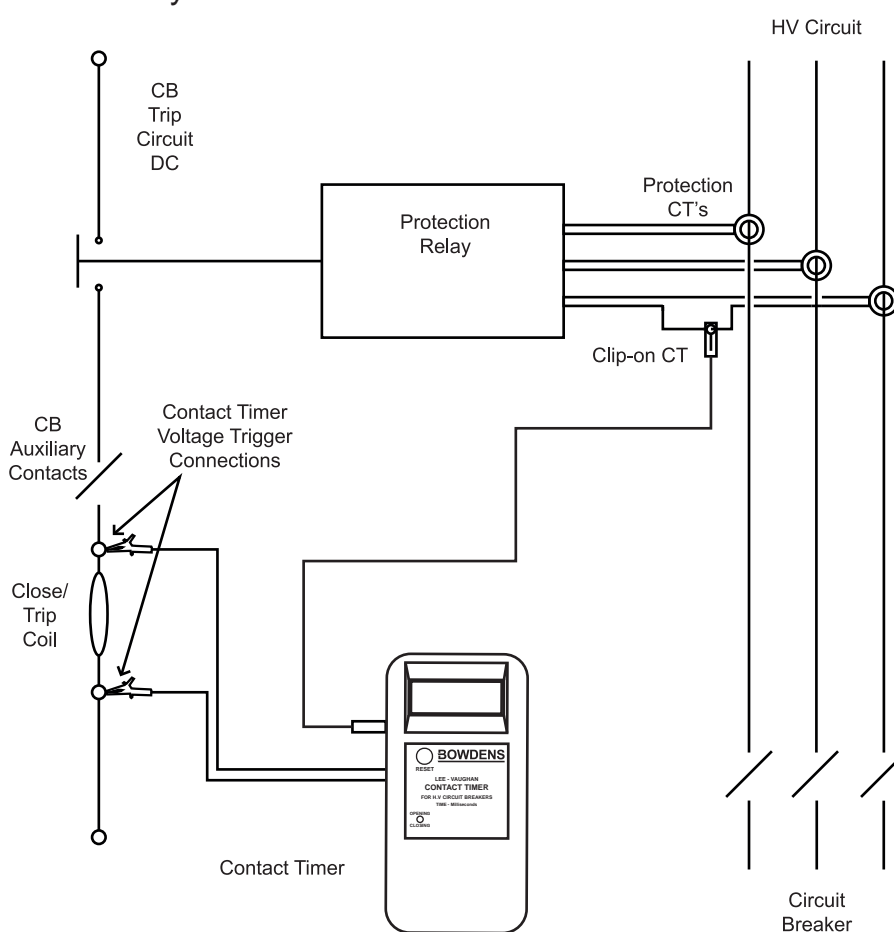
## **LEE VAUGHAN CONTACT TIMER**



**A CONTACT TIMER FOR MEASURING  
OPENING AND CLOSING TIMES OF  
HIGH VOLTAGE CIRCUIT BREAKERS**

The Contact Timer measures the exact circuit breaker opening or closing time from the moment the Protection Relay DC contacts 'make' to the instant that there is a loss of AC current flow in the Protection CT secondary wiring i.e. the circuit main contacts are open. The Contact Timer can be used on all high voltage circuit breakers up to 132KV and is enclosed in a tough ABS pocket-sized case. Leads are provided with the instrument to make the two necessary connections between the DC trip circuit and the AC protection current transformers.

The instrument can be switched on/off using the slide switch on the side of the case. As a precaution against unnecessary battery drain, the timer incorporates an auto-switch-off facility, which functions 30 minutes after the last reading. A black toggle switch on the front panel allows the change from opening time measurement to closing. A soft-touch reset allows the previous time read-out to be cleared ready for the next measurement. The Contact Timer can be adapted to measure the opening time of SF6 breakers in Ring Main units. A Switchgear Auxiliary Lead is required to achieve this facility.



## Specification

Dimensions: 80 x 150 x 30 mm (excluding the leads)

Weight: 300 grams (excluding leads)

Current range: Protection CT ac. Current range 10mA - 5A. Accuracy cannot be guaranteed with current values below 10mA. On a 400/5 CT this represents 0.8 Amps in the primary circuit.

Time range: 0 - 999 milliseconds

Trigger voltage: 30V to 240V ac. or dc.

Battery: 1 x PP3 9V