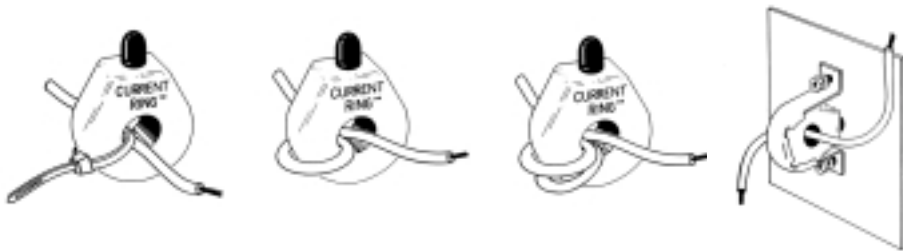


## APPLICATION SHEET ANCR45-1

### The CR45 as an Open Heater/Open Winding Indicator

The most popular application of the CR45 indicator is to provide a method of non-intrusive troubleshooting and status indication of heater elements and motor windings. The typical failure mode of heaters and some motors are open circuit. When current flows, the LED is on. When the circuit is open, the LED is not on. This gives an easy method of monitoring the status of the equipment.



WIRE PASSES	TURN-ON POINT		MAX. WIRE DIAMETER
	RED	GREEN	
1	2.00	2.50	0.29
2	1.00	1.25	0.14
3	0.66	0.83	0.13
4	0.50	0.62	0.12
N	2 / N	2.5 / N	

### APPLICATION AND LIMITATIONS

- The on level of the CR45 can be adjusted by increasing the number of primary turns. The table above gives the size wire and the number of turns that can be used. Dividing the normal one turn on level of 2 amps by the number of primary turns will give the adjusted turn on level.
- The CR45 is designed to be wire mounted using the wire tie provided. For panel mounting, the MB45 is available, along with a rubber grommet for sealing.
- The maximum current that the unit can handle is 100 Amps for a single turn. Using multiple primary turns decreases the maximum allowed by the same rules for adjusting the turn on point.
- For applications where the primary current cannot be routed to an easily viewed spot to use the CR45, please refer to our **Remote Indicator** line. These separate the LED and the ring sensor to give greater flexibility.
- Care must be taken when using the CR45 within heater environments. The maximum operating temperature of the unit is 65 degrees C.