Trip Coil Monitor with Local LED and SCADA Alarm Provides Continuous Monitoring of the Breaker Trip Coil

The Electroswitch Trip Coil Monitor (TCM) is a convenient panel mounted relay that utilizes LEDs for visual indication and an added SCADA alarm feature.

The TCM provides continuous monitoring of the Breaker Trip Coil as well as the breaker's 52b auxiliary contacts. The TCM eliminates nuisance alarms via a built in time delay circuit. This provides for a reliable SCADA alarm and local indication when either the trip coil opens or the breaker doesn't complete its trip operation.

The TCM panel mounted package also has a self-monitoring feature providing both visual and SCADA alarm indication if there is a loss of voltage.

Features

- LED Indication of Open Trip Coils or Breaker Failure to Trip
- Dual Trip Coil Monitoring Option Available
- SCADA Indication of Open Trip Coil, Loss of Voltage or Failure of the Breaker to Trip
- Standard Alarm Time Delay
- Replaceable, Industry Standard LED
- Convenient Easy to Wire Design
- Standard TCM Covers 48-125 VDC Applications

Benefits

- Continuous Monitoring of Trip Coil Continuity
- Built in Delay Feature Eliminates Nuisance Alarms
- Solid State Design Prevents False Alarms Due to Magnetic Field Interference
- Minimal Behind Panel Space Required
- Extended Voltage Capability to Minimize Inventory and Reduce Potential Installation Errors
- Eliminates Need for Loss of Voltage Alarm

Specifications

Operating Voltage Range	37 – 140 VDC
Scada Output Contact Rating	100mA MAX
Operating Temperature Range	-20C to +55C
Standard Alarm Time Delay	400 millisecond

Meets ANSI/IEEE 37.90 and ANSI/IEEE 37.90.1

Ordering Information

LED Color [Red Standard] Green, Blue, White, Amber Options
SCADA Contact N/C [Standard] N/O Option Available
Single Trip Coil Monitoring [Standard] Dual Trip Option Avail.
Special Engraving if Required [Standard as Shown]

Consult Factory for Additional Information

Panel Drill Drawing

TABLE 1 CUSTOMER CONNECTIONS	
CONNECTIONS	WIRE COLOR
TCM+	RED
TCM-	ORANGE
XB+	BLUE
XB-	YELLOW
SCADA+	BROWN
SCADA-	GREY

TYPICAL SYSTEM CONNECTIONS

BREAKER SHOWN IN CLOSED POSITION