

POWERSWITCH

DC TRACTION POWER COMPONENTS

FIBER-OPTIC SHUNT MONITOR

COPPER RIDGE SYSTEMS - 100904 SERIES

COPPER RIDGE 100904 FIBER-OPTIC SHUNT MONITORS WERE CREATED TO PROVIDE A COMPLETELY ISOLATED INTERLOCK WHICH PREVENTS OPENING A 750VDC LOAD BREAK SWITCH WHEN THE LOAD CURRENT IS MORE THAN A SPECIFIED VALUE. WHEN PAIRED WITH A COPPER RIDGE 100910 FIBEROPTIC RELAY THE CONNECTING FIBER CABLE ALLOWS COMPLETE SEPARATION OF HV POWER AND LV CONTROL WIRING INTO SEPARATE COMPARTMENTS TO MEET MODERN SAFETY STANDARDS. THESE BI-DIRECTIONAL FAILSAFE MONITORS MEASURE OUTPUT FROM A 50 MILLIVOLT SHUNT SELECTED TO MATCH THE FULL LOAD CURRENT RATING OF THE LOAD-BREAK DISCONNECT. SHUNT VOLTAGE EQUAL TO OR MORE THAN SPECIFIED LOAD CURRENT TURNS THE MONITOR ON. THIS CAUSES THE FIBER-OPTIC RELAY TO OPEN TO PREVENT OPENING THE MOTOR OPERATED SWITCH. THE FAIL-SAFE FIBER-OPTIC RELAY WILL RECLOSE ALLOWING MOS OPERATION WHEN SHUNT VOLTAGE IS BELOW THE SET AMOUNT ONLY IF ALL COMPONENTS ARE FUNCTIONAL AND SHUNT CONNECTIONS ARE MAINTAINED. THESE MONITORS ARE FACTORY ADJUSTED TO TURN ON WHEN THE SHUNT OUTPUT IS EQUAL TO THE SPECIFIED CURRENT. THE SETTING IS INDICATED BY THE DASH NUMBER ON THE MONITOR LABEL. FOR EXAMPLE, PART # **100904-15** IS ON WHEN 50MV 6000A SHUNT CURRENT IS MORE THAN 1800 AMPS AND #100904-50 IS ON WHEN 50MV 6000A SHUNT CURRENT IS 6000 AMPS.

FEATURES

ALLOWS COMPLETE ISOLATION BETWEEN HIGH VOLTAGE POWER CONNECTIONS AND LOW VOLTAGE RELAY CONNECTIONS.

MEASURES CURRENT FLOWING IN EITHER DIRECTION THRU SHUNT.

DOES NOT REQUIRE LOW VOLTAGE CONTROL POWER.

SPECIFICATIONS

SHUNT INPUT:

Factory Set Between 15 and 50 millivolts.

CONTROL POWER INPUT:

600-750VDC, 6 Watts Maximum.

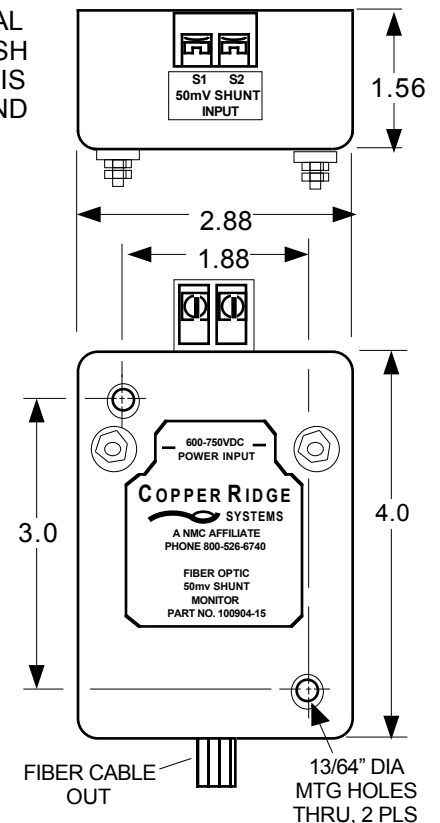
TERMINALS:

Control Power - #8-32 Brass Studs.

Shunt Input - #6 Screws with Wire Clamps.

MOUNTING:

(2) #10 x 2 inch long machine screws.



DIMENSIONS IN INCHES

POWERSWITCH, Inc.

815 E CHERRY STREET <> TROY, MO 63379 <> 1-800-526-6740

www.normandymachine.com