POWERSWITCH

1000 VDC TRACTION POWER CONTROL COMPONENTS

1000 VDC VOLTAGE SENSING ELECTRONIC SWITCH

COPPER RIDGE SYSTEMS - 940100 SERIES

PART NUMBER 940100 ELECTRONIC SWITCH WAS DEVELOPED BY A POWERSWITCH AFFILIATE TO MONITOR THE VOLTAGE ON 1000VDC NO-LOAD BREAK MOTOR OPERATED TRACTION POWER DISCONNECTS. THEY HAVE PROVEN TO BE RELIABLE TO CONTROL ELECTRICAL INTERLOCK RELAYS TO PREVENT OPERATION WHEN NO-LOAD BREAK DISCONNECTS ARE ENERGIZED. OPTICALLY ISOLATED VOLTAGES MORE THAN PLUS OR MINUS 50 VOLTS APPLIED TO THE SENSE TERMINALS CAUSE THE NORMALLY OPEN SOLID STATE SWITCH TO CLOSE. WHEN CONNECTED TO A STANDARD 110 VDC INTERLOCK RELAY THE ELECTRONIC SWITCH OPENS TO DE-ENERGIZE THE RELAY WHEN TRACTION POWER VOLTAGE IS LOWER THAN PLUS OR MINUS 50 VOLTS.

FEATURES

ALL SOLID STATE, NO MOVING PARTS, NO CONTACT BOUNCE

OPTICALLY COUPLED ISOLATION BETWEEN HIGH VOLTAGE SENSE AND LOW VOLTAGE CONTROL CIRCUITS

HIGH SENSE VOLTAGE INPUT IMPEDANCE

OPERATES WITH EITHER AC OR DC CONTROL VOLTAGE.

SPECIFICATIONS

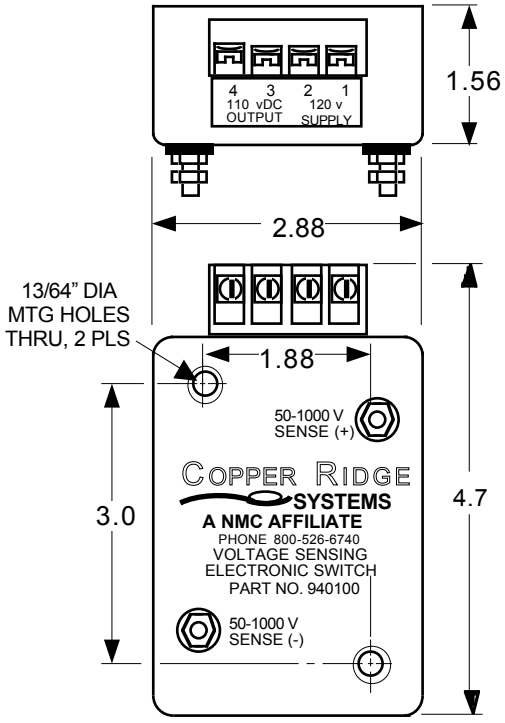
SENSING INPUT CHARACTERISTICS:
- Maximum Forward Voltage: +1000 VDC.
- Maximum Reverse Voltage: -1000 VDC.
- Minimum Input Impedance: 500,000 ohms.
- Maximum Current Draw: 2 mA @ 1000 VDC.

LOAD CIRCUIT: (One 110-120 VDC Relay Coil)
- Output Voltage: 100-108 VDC.
- Output Current: 1A Maximum.
- Reverse EMF Protection: 1000 volts.

POWER INPUT:
- 120 Volts AC/DC, 10 Watts Maximum.

TERMINALS:
- HV - #8-32 Brass Studs.
- LV - #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