



Kinetic Polymers

(AN ISO 9001 - 2008 Certified Company)

D-13/2, Phase-1, Road No. 3, IDA., Jeedimetla, Hyderabad - 055. INDIA
Phones : 7207078344, 7207008277, Telefax : 040-23093957
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Technical Specifications of Personnel Drain System

Safety device for screening personnel entering areas where electrostatic discharges must be avoided

Conduction to Ground Monitor is a control and display unit which is usually mounted on a wall at about shoulder height. This unit is mounted on stainless plate having two handles one is “test handle” to test the resistance and another is “Reference ground handle” having connected to the dedicated earth point where human body is to be discharges .By holding test handle and reference handle on unit the monitoring circuit is activated and the electrical resistance is measured between the test handle and the Reference handle.

In a number of industrial operations it is essential for personnel to be effectively bonded to ground at all times to prevent electrostatic spark discharges damaging sensitive electronic components or circuits, or causing ignition of flammable vapors or materials. Bonding to earth may be conveniently achieved via conductive footwear, but it is necessary to know if this bonding remains effective in practice.

HBSD-Lamp Unit model provides a simple Red/Green lamp indication if the resistance is above or below the present value set in the unit . “Red Lamp” is illuminated if the resistance is above the pre- set value and the “Green Lamp” is illuminated if the human conduction value measured is less than pre- set value.





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Technical Specifications

- Power supply : 230 v ac
- Max Test voltage : 1.5 v dc
- Type of Ex protection : Ex “d”
- Certification : MCRI IIA/IIB for Zone 1 & 2 ingress protection grade IP66 temperature class - T6
- Optional Certification on extra cost : MCRI IIA/IIB for Zone 1 IIC/PESO/CCOE ingress protection grade IP65 - Temperature class : T5
- Interlock contact : 1c/o potential free contact
- Indication lamp – Pass: GREEN / Fail : RED 22.5 mm
- Unit size : 250 x 250 x 165
- Over all dimensions including SS plate and handle : 525L x 330W x 175H mm
- Overall size : 20.5”L x 12.5”Hx 8” D
- Mounting : wall mounting SS plate
- Handles : Test & Ref. Ground handle
- Power On/Off switch : 06 Amp



Installation :

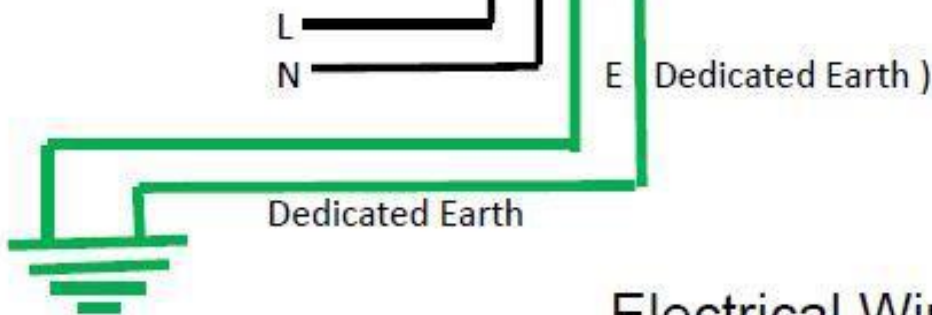
- 1) Connect 230 v ac supply to mentioned L & N only.
- 2) Connect dedicated earth separately from dedicated earth point to E point mentioned along with L , N & E on terminal & to the top of the Ref Handle where green color short wire is connected.
- 3) And follow the above SOP to human body static dissipation



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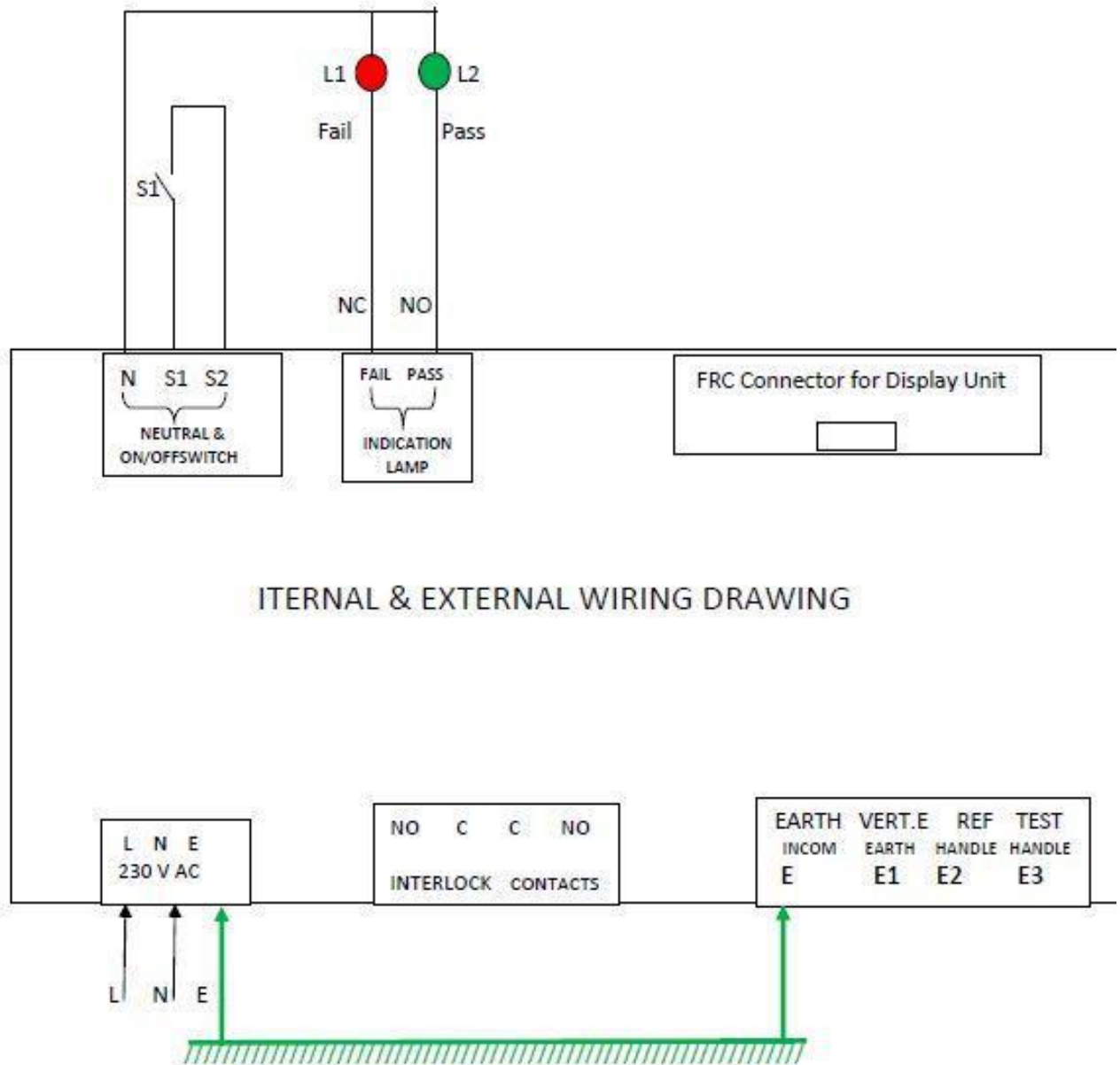
Electrical Wiring Details



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INTERNAL & EXTERNAL WIRING DRAWING

Dedicated Earth to PCB board E & E

SEPRATE WIRES FROM EARTH STRIP



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Mounting Plate Drawing

