



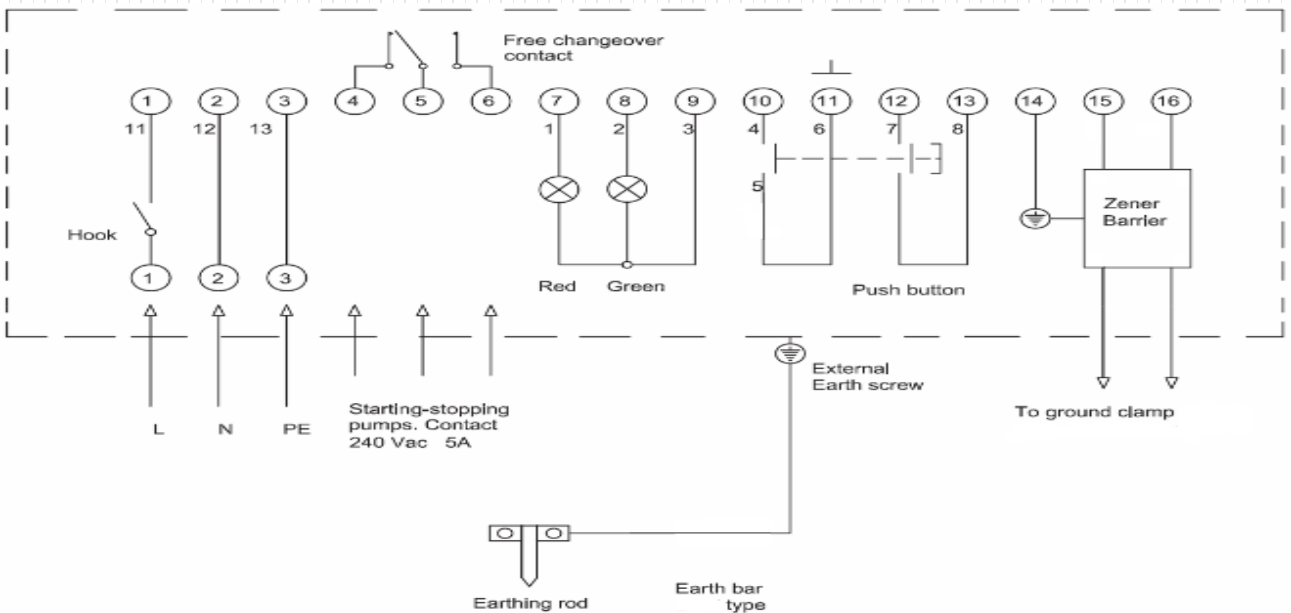
Ex-proof's our business

EGD SERIES EXPLOSION-PROOF ELECTRONIC GROUNDING CONTROL DEVICE

Certificate by : INSEMEX-OEC.ATEX.2013.3.0022X

Ex d II G Ex d [Ia] Ia II B T6 Gb

TERMINAL STRIP



INSTRUCTION

1. Connect the equipment as indicated in terminal strip diagram and the red signal lamp will light.
2. Take off the clamp from its hook.
And internal switch linked to the hook will activate the system.
The red lamp is still lighting.
3. Connect the clamp to the tank truck.
4. Press the button until the red lamp is off and the green one is on (just a few seconds).



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Now, the truck is completely earthed and loading/unloading operations can be carried out. EGD checks the status of earthing connection and the resistance values by means of two different measurements:

a) The resistance value between the grounding bar connected to EGD and the main grounding bar of power supply, which is also connected to EGD (pin 3) by the yellow/green wire (PE). If this value is less than 20 Ohm, the EGD will proceed automatically to a second measurement:

b) The resistance value between the ends of the clamp.

This is possible because the clamp is connected using 2 wires. This measurement continuously assures that the clamp is well connected to the tank truck and consequently the tank truck is well connected to earth, instant by instant. Also in this case this value has to be below 20 Ohms for the operation to proceed. In summary, the EGD does not permit the operation of loading and unloading to begin unless both these resistance values are below 20 Ohms; on the contrary, when this occurs, the EGD will automatically send a signal by an internal relay to the change over which will activate pumps, valves and all what is related to loading/unloading operations. If during the operation of loading or unloading the clamp becomes disconnected or the earthing connection is lost (either accidentally or by increased resistance due to oxidation) the operation of any pump connected to the EGD is stopped and the red light is switched on again. The EGD internally uses an intrinsically safe zener diode (Ex-ia). In this way this device can also be used in Zone "1" areas.

APPLICABLE STANDARDS

EN 60079-0, EN 60079-1
EN 60079-11, EN 60079-14,
EN 60141-1



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MATERIAL

Aluminium – Etial 171
Copper Content < 0.01 %
Device Colour: RAL7040

THREAD SIZE and TYPE

Tapered pipe thread ISO 7-1
NPT pipe thread ANSI B1.20.1

PROTECTION TYPE

IP54

OPTIONS

IP66