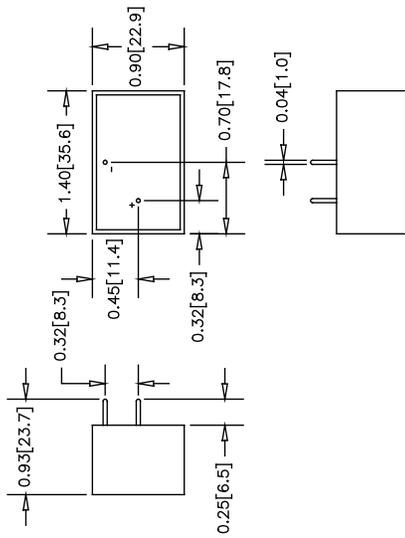


**INSTALLATION INSTRUCTIONS****Model: CB08 CROWBAR****MCG SURGE PROTECTION**

12 Burt Drive Deer Park, NY 11729  
 Tel: 631-586-5125  
 www.mcgsurge.com  
 Email: support@mcgsurge.com

**Installation**

1. Remove DC power from system (for retrofit installations). For OEM circuit board use, skip this step.
2. Install (design) the CB08 into the system (circuit) between the power source and the protected load. Locate the CB08 as close as possible to the power supply's output (electrically) to minimize inductance between the power supply and the crowbar device.
3. Connect the terminal marked (+) to the positive voltage conductor of the system.
4. Connect the terminal marked (-) to the negative voltage conductor of the system.



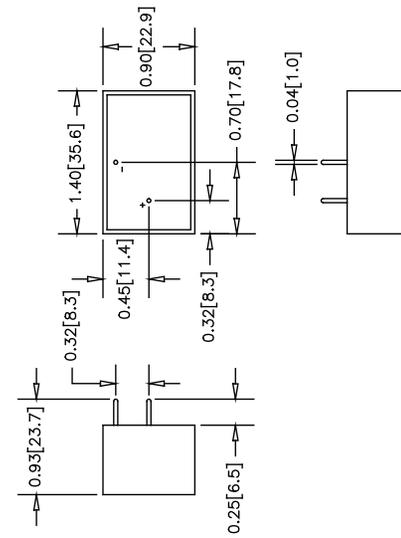
Note: All dimensions are expressed in inches and [mm].  
 Drawing is not to scale.

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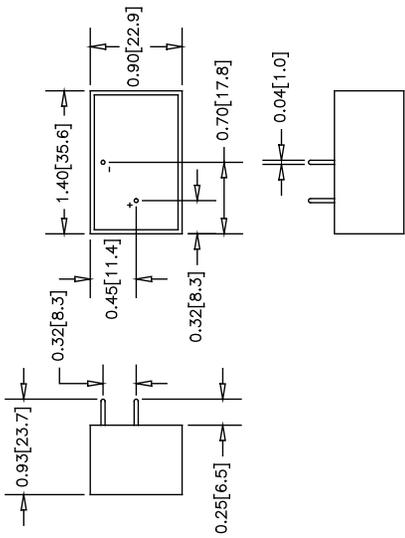
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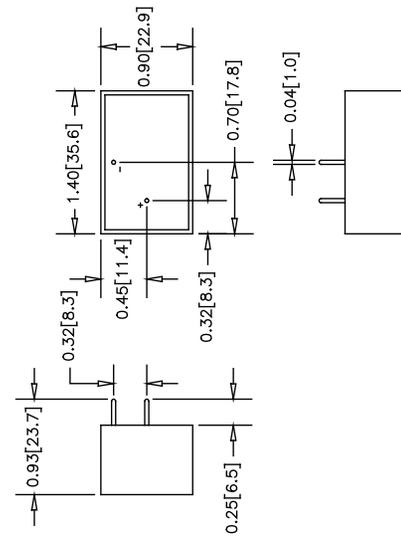
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NOTE: Any conductors used must be sized properly to withstand the maximum continuous power supply current during a fault when the LVC is conducting. An upstream fuse/circuit breaker is recommended to protect the wiring (conductors) from damage when the crowbar is in its tripped (conducting) mode.

5. Reapply power (if retrofit) – load is protected.

### **Crowbar Operation**

The MCG CB08 crowbar protects sensitive loads from over voltages on a DC power bus. In normal operation, the CB08 is a high impedance device, virtually invisible to any DC power system, until a predetermined trip voltage level is reached. When this happens, the device switches instantaneously to a short circuit mode, thus protecting the equipment from damage.

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### **Reset**

Once the CB08 has activated, it can be reset by removing power to the system, and then reapplying power. If the fault still exists, the CB08 will activate and go into the short circuit mode immediately until the fault is corrected. If the over voltage problem is rectified, the CB08 will remain in standby mode when power is applied, ready for the next over voltage event.

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