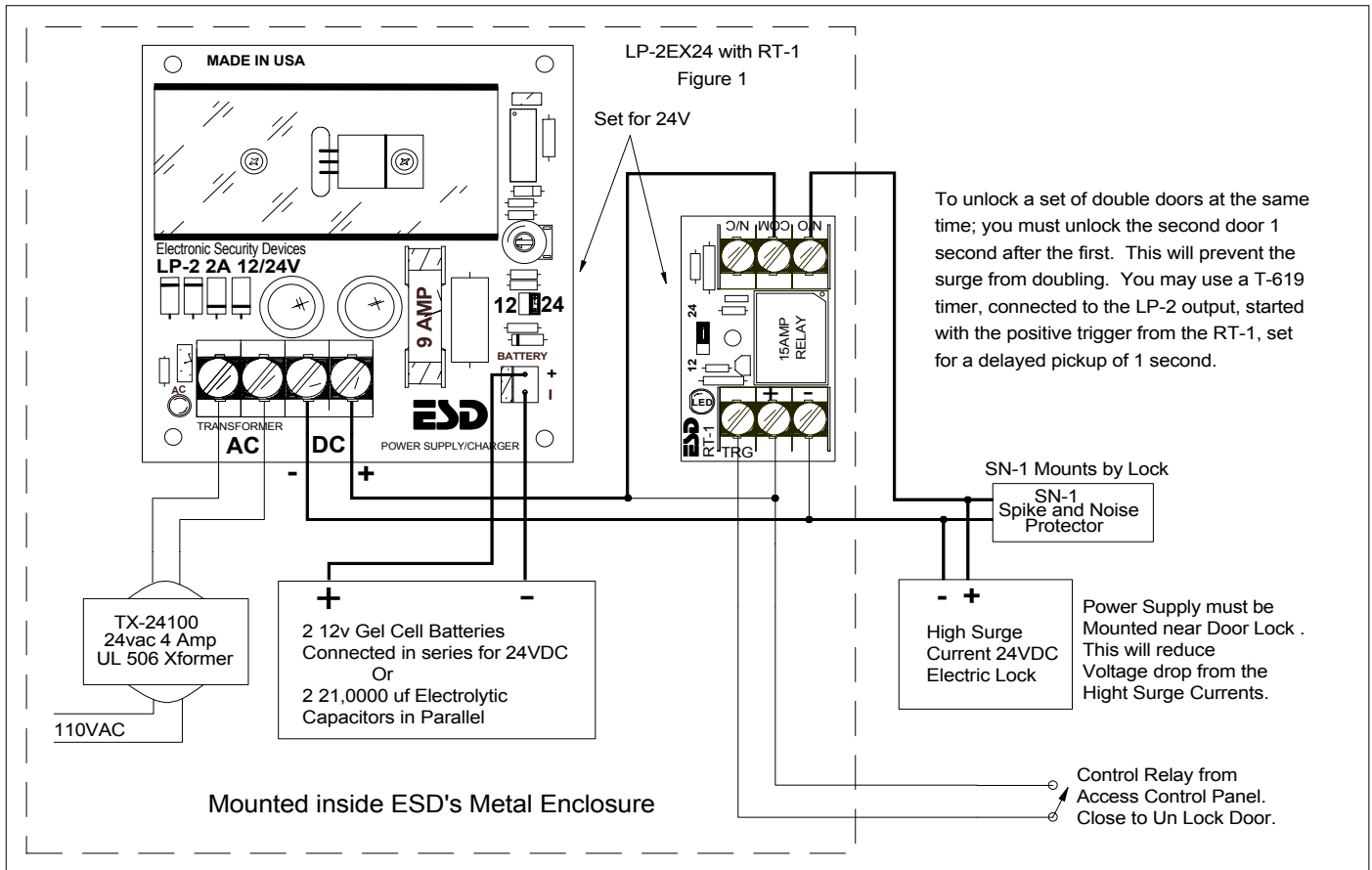


APPLICATION NOTE: AN1 LP-2 High Surge Current

LP-2 Operates High Surge Current Electric Lock



DESCRIPTION

Figure 1 above shows an LP-2 and a RT-1 supplying power for a high surge current, 2 stage electric lock. The first stage of a typical vertical bar electric lock draws 16 Amps for about a 1/2 of second to unlock the door. After the initial surge from the first stage, the second stage holding current is about 300ma. Because the LP-2's current is limited to 3 Amps, you must use either a standby battery or capacitor to supply the balance of the high current surge. After the surge the LP-2 will quickly recharge the storage device. The capacitor is used when no standby power is desired. The Electrolytic Capacitors can be obtained from **ESD**.

The heavy contacts of the RT-1 are used switch the high current locally to the door locks. Only a small control current goes back the access control panel.

The SN-1 is placed across the door lock to suppress interface and protect the LP-2 from the very high spikes generated from the electric lock.

Refer to Technical Sales Bulletins LP-2, RT-1, and SN-1 for more information.



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10/99 © Technical Literature jdb LP-2 specifications subject to change (more)

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