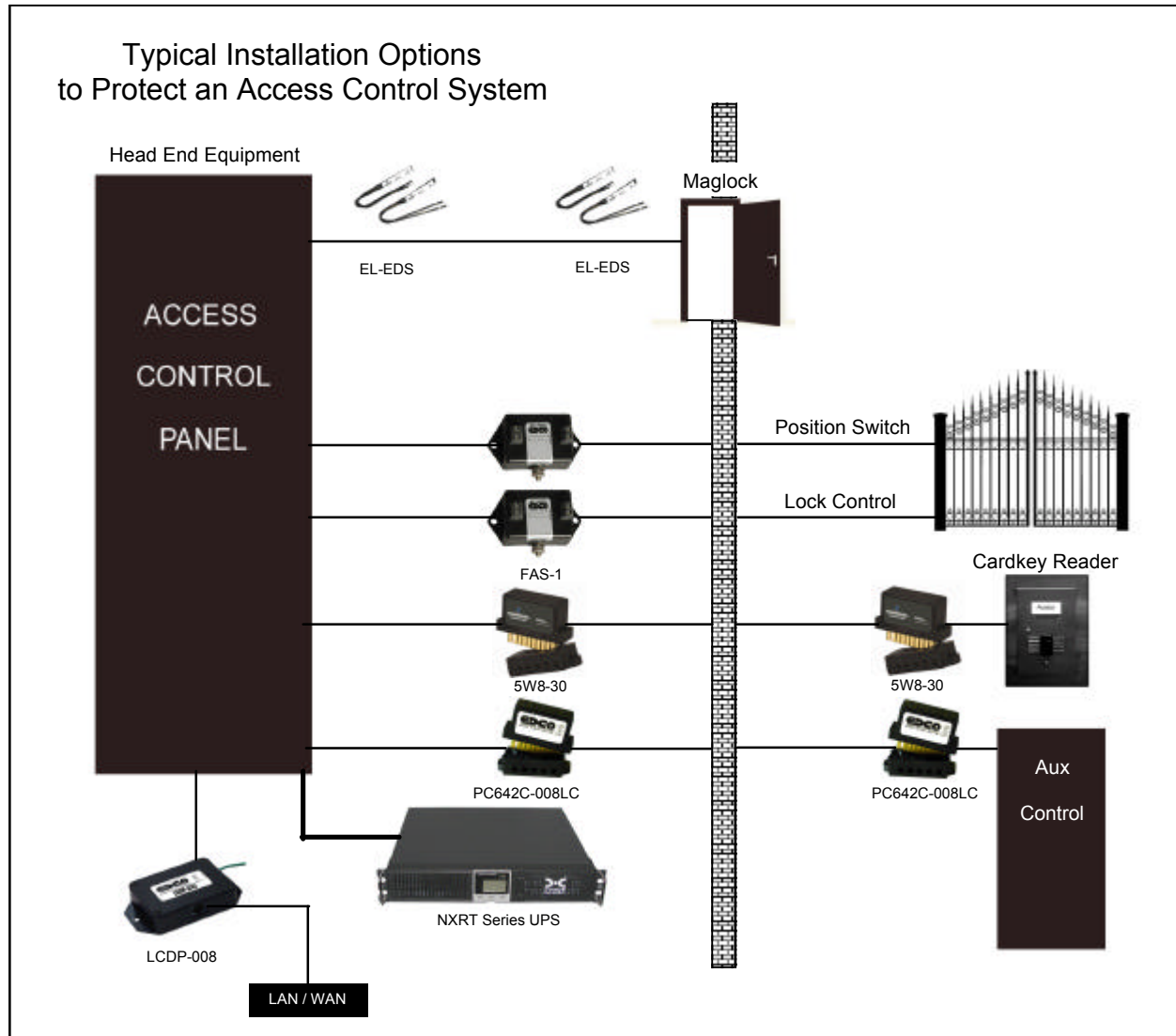


ACCESS CONTROL Surge Protection

Door Lock, Identification, Control & Recording



Security equipment intended to protect life and property can and should be protected from power surges that result from lightning or from any of several man made sources. Outdoor security devices are prone to lightning strikes which can damage or destroy a security data network. Protecting that network is both simple and inexpensive.

The above illustration shows a variety of components that can be combined to provide full system protection for magnetic locks, gate controllers and Wiegand cardkey readers as well as monitoring and recording equipment.

Lightning isn't the only hazard that can make security equipment inoperable. Utility power failure can render a network useless. An access control panel is dead in a blackout without battery back up. For that reason we recommend all security recording and control equipment be supported by an on-line UPS. Additional battery modules can be added to achieve extended UPS run time.

In Line Surge Protection from EDCO

EL-EDS suppressor kit is intended for installation with electrical switching devices, such as maglocks, that are connected through a relay contact on an access control panel. This device protects against electrical transients that are generated by the electromagnetic switching of a relay. The EL-EDS provides protection for both the relay contacts and the control panel. For each maglock, one EL-EDS should be installed across the relay contacts and another across the solenoid leads.

FAS-1 Series provides multi stage protection to a single pair of wires. (For dual pair protection see the FAS-2.) The FAS Series is available in a variety of voltages from 12 to 48. The precise FAS component selected should be determined by the specifications of the gate switch and control mechanisms. The FAS is not recommended for applications needing more than 2.5 amps of current.

5W8-30 is an access control protection module designed for Wiegand cardkey reader devices. This is a five wire device that accommodates two low voltage data lines for 5 VDC circuits. Further, fifth wire protection will allow operating power up to 24 VDC. Three stage surge protection is provided in a circuit that combines varistors (MOV) and silicone avalanche diodes (SAD). Sneak and fault currents are mitigated with automatically resetting fuses (PTC). This current suppression requires no manual intervention and significantly increases suppressor performance and survivability. The 5W8-30 mounts on the PDB-1B base (sold separately).

PC642C-008-LC is a dual pair (four wire) protection device which employs three component stages for protection: gas discharge tubes (GDT), silicone avalanche diodes (SAD) and automatically resetting over current protection (PTCs). The combination of these components significantly increases performance and the service life of the protection device. The PC642C-008LC is designed for RS-485 and RS-422 data lines with a low capacitance feature that clamps surges at 8 volts. It connects via a gold plated card edge with a base, PCB-1B, which should be firmly mounted to a surface and hardwired to ground.

LCDP-008 has two RJ-45 jacks and a ground lead. Its surge protection utilizes silicone avalanche diode (SAD) technology and exhibits very low capacitance (< 30pf) to accommodate high data rates. The LCDP Series is available for a number of voltage applications. The -008 version is designed for operating environments below 8 volts.

Battery Support from Xtreme Power Conversion

NXRT Series has four models of true on-line UPS. Connected equipment is powered off the UPS batteries 100% of the time. No power fluctuations, surges or line noise can reach connected equipment. NXRTs can be connected to an unlimited number of external battery modules, allowing for extremely long run times in the event of a power failure - just what's needed for security applications. There are four models in this series, ranging from 1,000 to 3,000 VA. Each can be rack, wall or tower mounted.

EDCO pioneered use of *Hybrid Series* surge protection in the mid 1970's. Originally designed to protect digital traffic light controllers, this multiple component approach has been successfully applied in a range of markets and applications including security, telecommunications and industrial controls. EDCO is a division of Emerson Network Power.

Xtreme Power Conversion is an innovative provider of high quality UPS products at innovative market prices. Juice Goose offers sixteen different models of UPS from 1,000 to 3,000 VA in on-line and line interactive designs.



Houston, Texas
For more information
713-772-1404
info@juicegoose.com
www.juicegoose.com