



Externally Mounted Dual Disconnect

Description

The Banner-Day externally mounted **Safe-DD™** dual disconnect is a compact panel containing two fused disconnects (primary and lighting), a control transformer and appropriately sized fusing. The main disconnect is responsible for feeding the primary power to the main control panel. The secondary lighting disconnect, wired in *parallel* to the main disconnect, provides power to the lighting circuit. This parallel wiring is designed specifically so the main power may be locked out separately, while maintaining an active lighting circuit. The lighting circuit is intended to power various light sources (both inside the main panel and on the machine) and allow the PLC and HMI devices to remain active. This capability of the **Safe-DD™** can be especially useful during machine installation/startup and when modifications are made as it allows the machine to be mechanically/electrically worked on in a safe manner while still allowing the debug of the PLC/HMI software.



Banner-Day **Safe-DD™** panels are UL Listed.





Benefits

- Main Panel Space Savings – Depending on the ampacity of the main disconnect, a significant amount of interior panel space can be taken up. The use of an externally mounted disconnect frees up that entire area. In addition, the external mounting allows for more flexibility in panel design as most control panel types can be used.

NOTE: The use of the externally mounted disconnect WILL require an electrical interlock with the door mechanism as there are no provisions for a mechanical interlock.

- Arc Flash Hazard Reduction – The combination of moving the main disconnect to the outside of the main panel and the use of Class J fuses in the main disconnect simplifies the Arc Flash Hazard analysis of the main enclosure. In most cases, the main panel will be able to receive an Arc Flash Hazard rating of Category 0, which requires only minimal Personal Protective Equipment (PPE).

NOTE: The Arc Flash Hazard analysis must still be done to determine the actual risk category!!! There are rare circumstances that will cause the hazard rating to rise.

- Maintenance Convenience & Time Savings – The provisions for a separate power feed for the PLC, HMI and lights allow the machine to be safely worked on with an acceptable lockout/tagout procedure, while still allowing other personnel to simultaneously make revisions/upgrades to the control software. This can mean a huge time savings by allowing both tasks to be accomplished simultaneously without compromising safety.

Banner-Day **Safe-DD™** panels are externally mounted onto the main panel.



Banner-Day

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