

MSA-RM-2 Relay Module Features

- FSD1, FSD2, and CNC outputs are rated for 6 amps (resistive) at 250V ac.
- SSD is rated for 4 amps (resistive) at 250V ac.
- If a MINI-SCREEN or MICRO-SCREEN manual is accompanied by this data sheet, the optional MSA-RM-2 Relay Module is factory-installed in the control box.

Important Information

It is important for the safe operation of the light screen system that the user comply with all relevant product manuals and regulations.

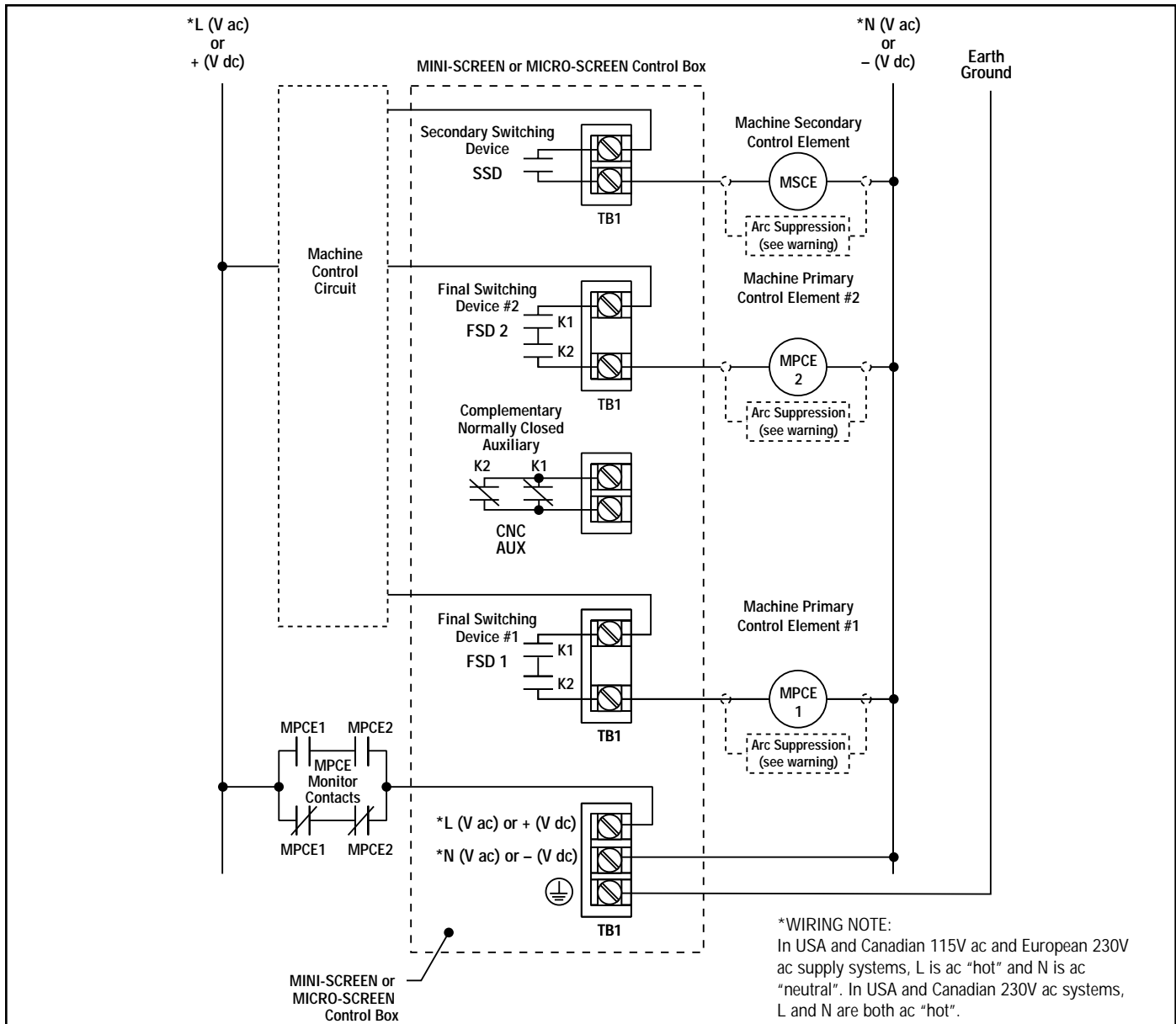
If the Complementary Normally Closed Auxiliary output ("CNC AUX") is used as a stand-alone output (it is not interfaced with one or both of the FSD outputs), it is a non-safety-related output. The CNC AUX output is typically used for monitoring purposes and may not be suitable for safety applications. The CNC AUX output status is the opposite of the FSD1 and FSD2 safety outputs.

The figure on page 2 shows the output relay connections in a generic interfacing solution. The connections between the safety light screen outputs and the machine primary and secondary control elements must be direct, and arranged so that any single line fault or earth fault will not result in a circuit failure to a potentially dangerous state.



WARRANTY: Banner Engineering Corp. warrants its products to be free from defects for one year. Banner Engineering Corp. will repair or replace, free of charge, any product of its manufacture found to be defective at the time it is returned to the factory during the warranty period. This warranty does not cover damage or liability for the improper application of Banner products. This warranty is in lieu of any other warranty either expressed or implied.

MSA-RM-2 Relay Module



WARNING . . . Arc Suppressors

Never install arc suppressors directly across the output contacts of any safeguarding device.

If arc suppressors are used, they must be installed as shown across the coils of the safety relays. It is possible for suppressors to fail as a short circuit.

If installed directly across the contacts of a safety light screen switching device, a short-circuited suppressor will create an unsafe condition that could result in serious injury or death.



WARNING . . . Use All Safety Light Screen Output Contacts

All MINI-SCREEN (or MICRO-SCREEN) System output contacts (FSD1, FSD2, and SSD) must be used.

The generalized wiring configuration shown here is provided only to illustrate the importance of proper installation.

The specific actual wiring of the safety light screen system to any particular machine is solely the responsibility of the installer and end user.