BANNER
the machine safety specialist

Dual MINI-SCREEN Controller Models GMMDSDINT-1T2 and GMMDSDINT-1L2

Supplement to Dual MINI-SCREEN Instruction Manual 47297

Dual MINI-SCREEN controller models GMMDSDINT-1T2 and GMMDSDINT-1L2 are identical to standard models MDSDINT-1T2 and MDSDINT-1L2, except that they use removeable wiring blocks. With the removeable wiring blocks, wiring terminal numbers change and one overall controller dimension increases. This supplement modifies the information for Figures 17, 20, and 23 which appear in Dual MINI-SCREEN manual 47297.

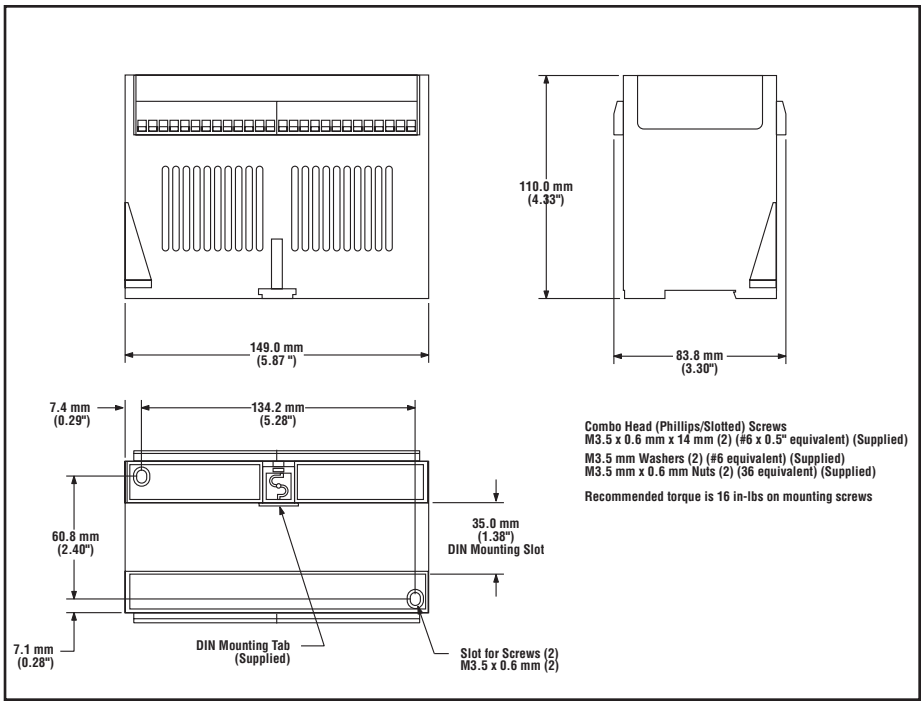
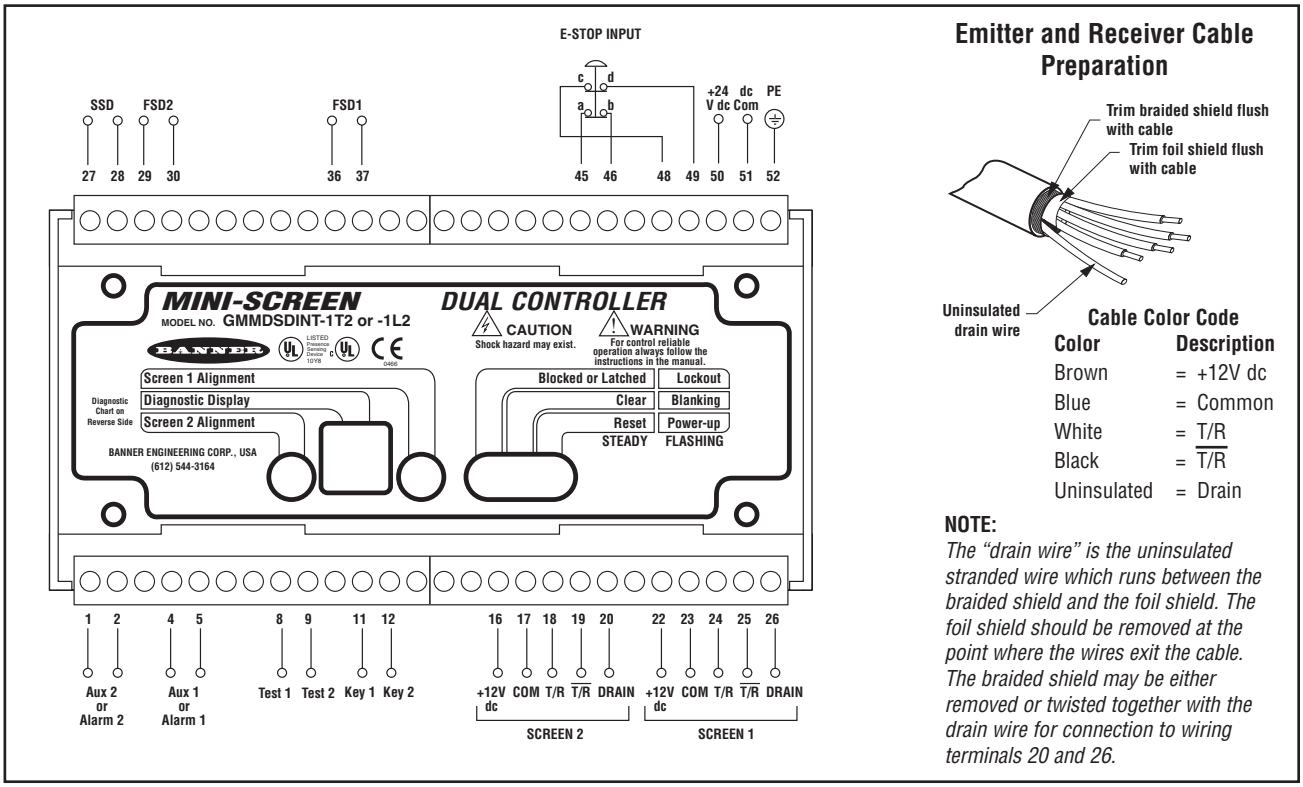


Figure 17. Control Module Dimensions and Mounting Hole Locations.



Emitter and Receiver Cable Preparation

Cable Color Code

Color	Description
Brown	= +12V dc
Blue	= Common
White	= T/R
Black	= $\overline{\text{T/R}}$
Uninsulated	= Drain

NOTE:
The "drain wire" is the uninsulated stranded wire which runs between the braided shield and the foil shield. The foil shield should be removed at the point where the wires exit the cable. The braided shield may be either removed or twisted together with the drain wire for connection to wiring terminals 20 and 26.

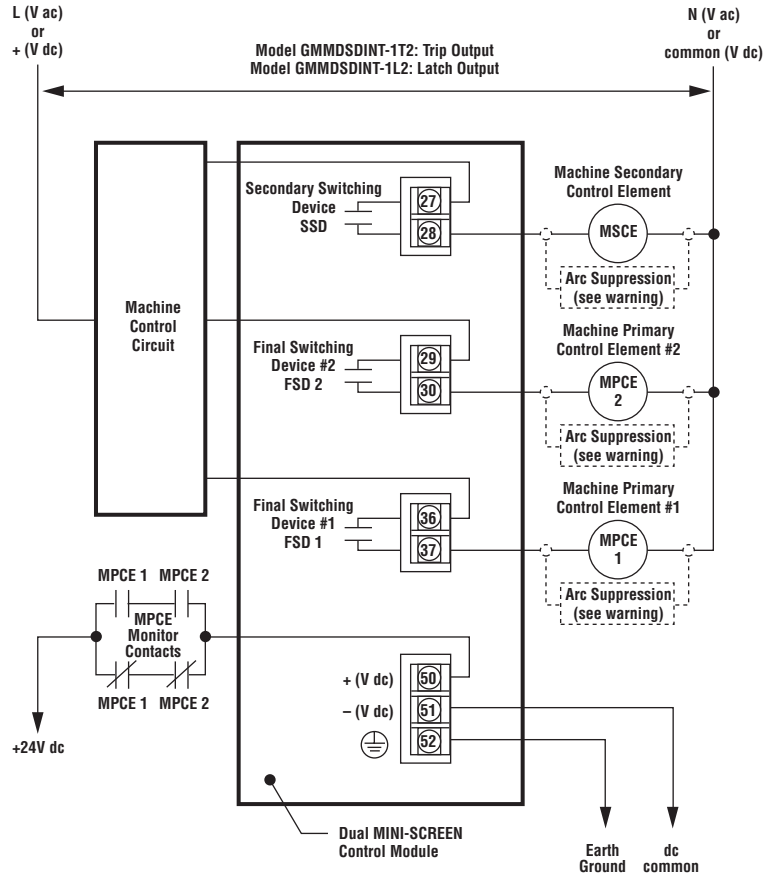
Figure 20. Dual MINI-SCREEN System electrical connections.

WARNING. . .
Use of Dual MINI-SCREEN Systems for Perimeter Guarding

If control module model GMMDSDINT-1T2 is used for perimeter guarding, the Machine Primary Control Elements (MPCEs) of the guarded machine must be wired so that the trip output of the control module causes a latched response of the MPCEs. The MPCEs must be reset **only** by actuation of a reset switch.

The reset switch must be located outside of the area of dangerous motion, and must be positioned so that the area of the dangerous motion may be observed by the switch operator during the reset operation. Supplemental safeguarding must be used if any space between either defined area and any danger point is large enough to allow a person to stand undetected by the Dual MINI-SCREEN System. Failure to observe this warning could result in serious bodily injury or death.

Figure 23 (below) shows output relay connections in a generic interfacing situation. The connections between the Dual MINI-SCREEN System 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.



WARNING. . .
If arc suppressors are used, they MUST BE INSTALLED AS SHOWN ACROSS THE COILS OF THE MACHINE CONTROL ELEMENTS. **NEVER** INSTALL SUPPRESSORS DIRECTLY ACROSS THE CONTACTS OF THE Dual MINI-SCREEN SWITCHING DEVICES! It is possible for suppressors to fail as a short circuit. **If installed directly across the contacts of a Dual MINI-SCREEN switching device, a short-circuited suppressor will create an unsafe condition.**

WARNING. . .
All Dual MINI-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 actual details of wiring of the Dual MINI-SCREEN system to any particular machine is solely the responsibility of the installer and end user.

Figure 23. Generic machine interface, Dual MINI-SCREEN System