

INSTALLATION INSTRUCTIONS

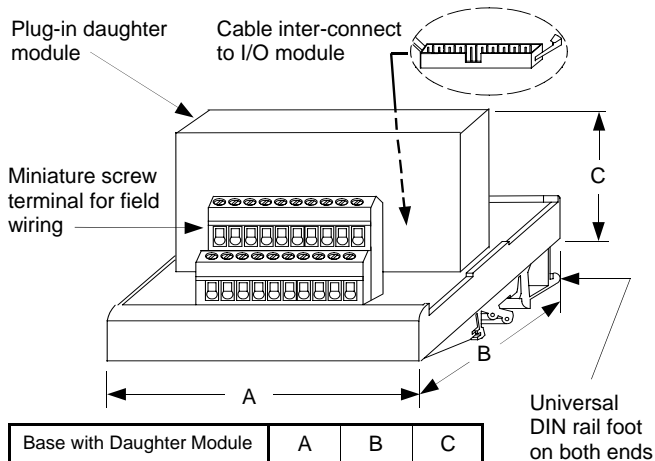
SAB SERIES

ALLEN BRADLEY I/O Module
SIGNAL/DATA/POWER

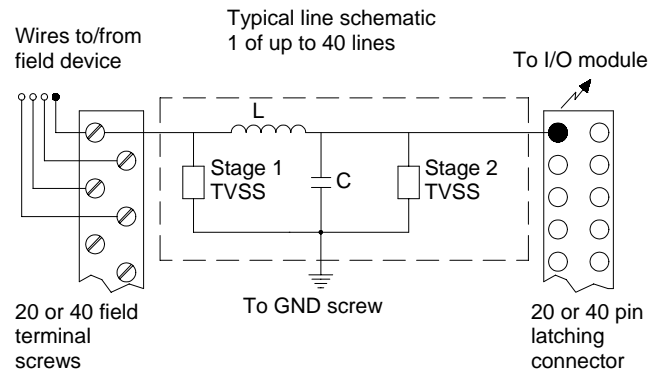
SURGE SUPPRESSOR
MULTI-LINE

OUTLINE DIMENSIONS:

SAB-20LM & SPU-20CD24 Depicted



TYPICAL INSTALLATION:



Note: See the SPU Series data sheet for Allen-Bradley PLC or SLC I/O applications when the I/O pre-wired cable is not utilized. An SPU Series base module should be selected in all cases where Allen-Bradley IFM or AIFM modules are used.

CAUTION: Make sure equipment power is OFF before installing suppressor.

Snap the rail mounted suppressor on any DIN rail. Mount suppressor as close to the equipment it is to protect as possible. Field wires are connected to the field miniature screw terminals on the SPU Suppressor unit. Connect the protected lines to the I/O equipment and dress away from the incoming lines. The suppressor must be connected to a good earth ground using a #12 AWG wire. Equipment ground and suppressor ground should be common.

NOTE1: For applications requiring use of SPU-XXCD120 or SPU-XXCD220, the suppressor contains no internal fuse and can fail short under direct lightning exposure: therefore, proper fusing is essential.



ATTENTION: Installation and servicing should be done only by trained and qualified personnel. Intended for indoor use in locked communication closets which are accessible only to trained personnel. Intended for use on communication loop circuits which have been isolated from the Public Switch Telephone Network.

WIRING INSTRUCTIONS:

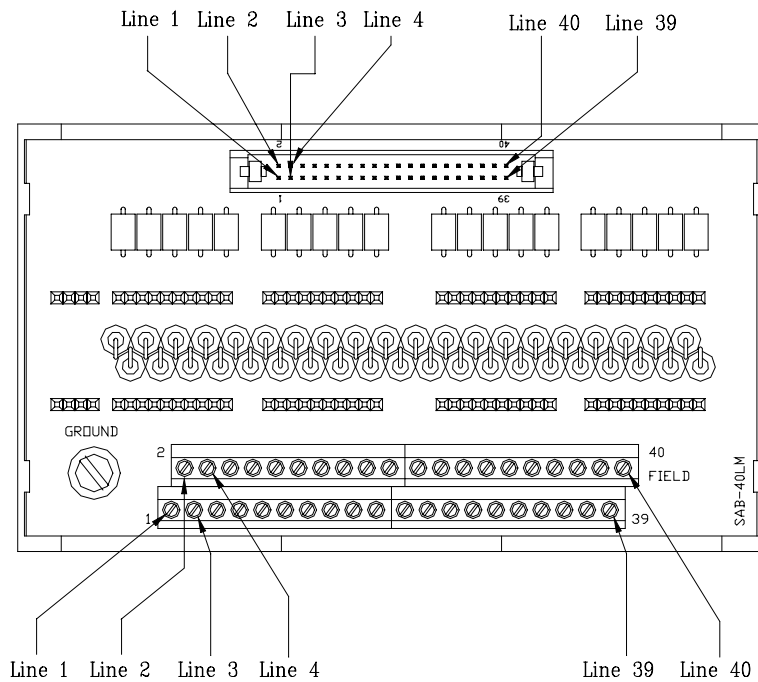
CAUTION: Make sure equipment power is OFF before installing suppressor.

- Remove 1/4" of insulation from each conductor wire to be inserted into "field" side of suppressor coming from transmitters, etc.
- Tin the end of each exposed wire with solder.
- Insert the tinned wires into SAB terminal block and tighten retaining screws. Be sure to match input (field side) wire terminal number to corresponding pin on pre-wired cable. The even numbered terminals on the field side are located in the taller (inside) terminal strip, while the odd numbered terminals are located on the shorter (outside) terminal strip. See Note 2 and drawings on page 2
- Snap pre-wired Allen-Bradley I/O cable into equipment side receptacle. Side snaps should flip up and snap securely to sides of connector.
- Keep ground wire (#12 AWG or larger) as short as possible. Equipment and suppressor ground should be common.
- Restore power to ON.

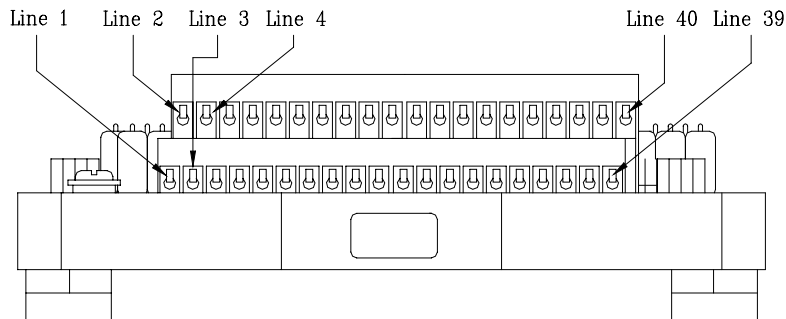
Note 2: For any one of the base modules each line is an independent path through the suppressor. For wire pairs, it is up to the end user how to connect all + and - wires. One option is to connect all + wires to odd numbered terminals and all - wires to the even numbered terminals. Another option is to connect Pair 1 + to Line 1 and Pair 1- to Line 3, Pair 2 + to Line 2 and Pair 2 - to Line 4, and so on. However EACH WIRE MUST BE CONNECTED TO THE SAME NUMBERED TERMINAL ON THE EQUIPMENT SIDE AS ON THE FIELD SIDE.

Shown below is a 40 line base module without the daughter (suppressor) module

EQUIPMENT / OUT – To Protected Equipment



FIELD / IN – From Unprotected Lines



FIELD / IN – From Unprotected Lines

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