

**FEATURES**

- ❖ Dual channel noise filtering.
- ❖ Two types of noise filtration technics used:
  - DC Common mode choke coils
  - EMI suppression filter capacitors
- ❖ EMI noise reduction on frequencies between 10KHz. to 1MHz.

**APPLICATIONS**

- ❖ Noise radiated from the inputs of some VFDs.
- ❖ Filter control signals that have picked up noise radiated from electrical or RF equipment.

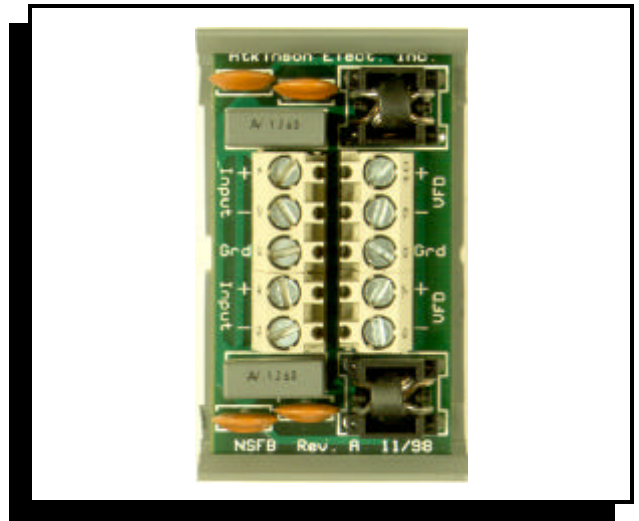
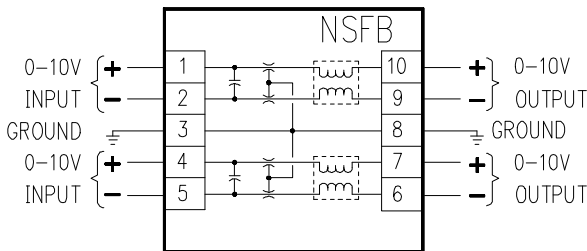
**DESCRIPTION**

The NSFB is a dual channel noise suppression filter board that uses passive filtration technics to filter noise coming from the input of VFDs, electrical or RF equipment. The NSFB uses two types of passive filters, (Common mode choke, EMI filter and bypass capacitors) to filter noise from standard DC control signals. The NSFB filters noise from 0 to 24V DC or 4 to 20mA DC signals.

**ORDERING INFORMATION**

**NSFB**                      Noise Suppression Filter Board

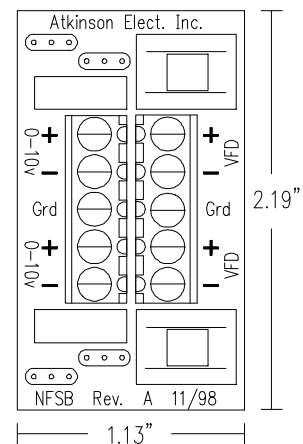
**WIRING CONFIGURATION**



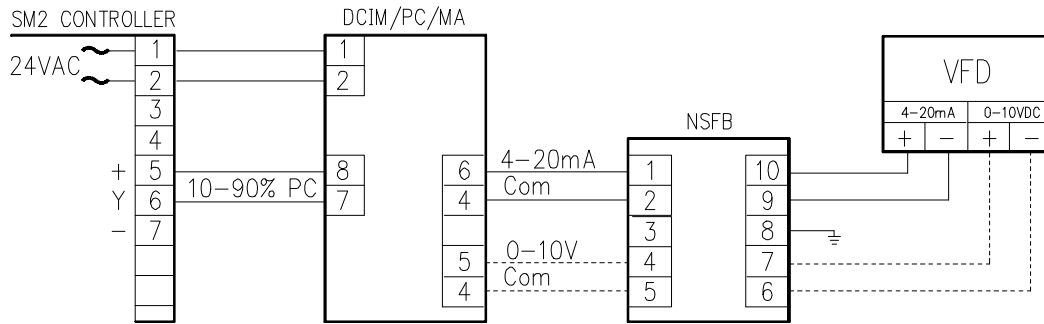
**SPECIFICATIONS**

- SIZE:                                      1.3" L x 2.19" W x 0.75" H
- MOUNTING:                            2.187" W RDI snap-track (supplied)
- POWER:                                   None (Passive filter circuit)
- INPUT:                                    0 to 24V DC signals, 0 to 20mA DC signals.
- OUTPUT:                                 0 to 24V DC signals, 0 to 20mA DC signals.
- AMBIENT TEMP:                      0 TO 50°C

**PHYSICAL CONFIGURATION**

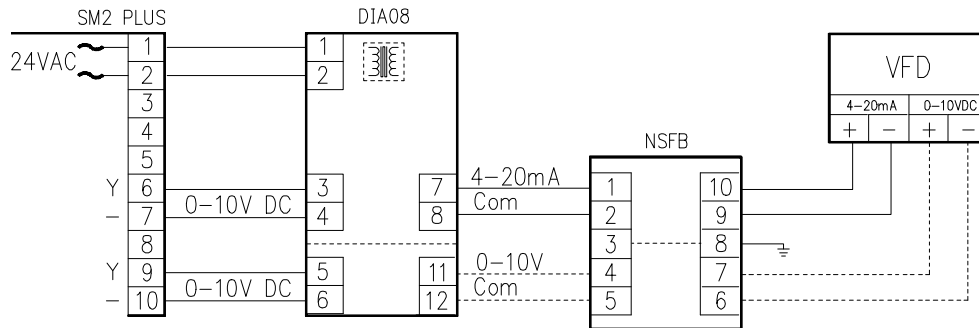


**APPLICATION 1 - PROVIDING NOISE FILTERING BETWEEN CONVERTOR AND VFD.**



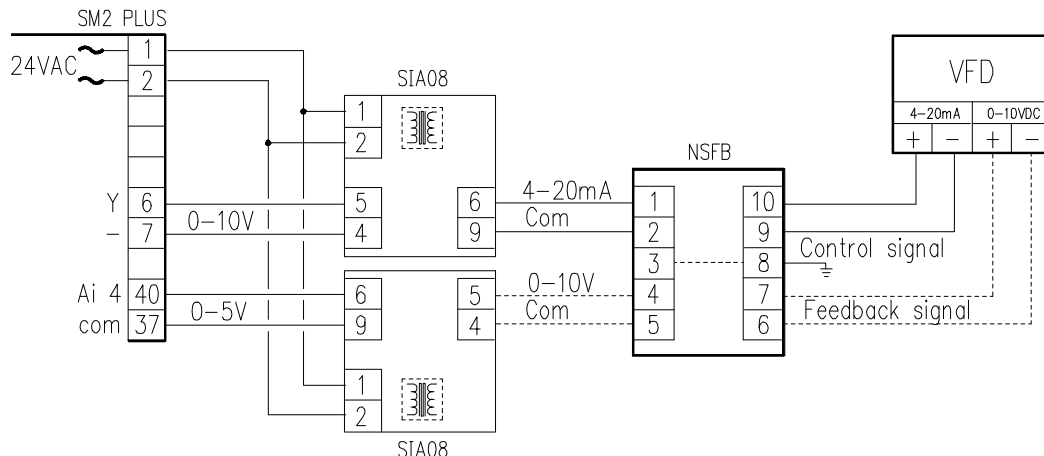
The NSFB is installed between the DCIM/PC/MA and the VFD to filter out the noise generated by the VFD from interfering with the signal convertor. The NSFB passes the 4-20mA or 0-10V DC signal to the VFD, and can be used with other Atkinson Electronics signal isolation modules.

**APPLICATION 2 - PROVIDING NOISE FILTERING BETWEEN CONVERTOR AND VFD.**



The NSFB is installed between the DIA08 and the VFD to filter out the noise generated by the VFD from interfering with the signal convertor. The NSFB passes the 4-20mA or 0-10V DC signal to the VFD and can be used with other Atkinson Electronics signal isolation modules.

**APPLICATION 3 - PROVIDING NOISE FILTERING FEEDBACK SIGNAL FROM VFD.**



The NSFB is installed between the SIA08 and the VFD to filter out the noise generated by the VFD from interfering with the signal convertor. The NSFB passes the 0-10V DC feedback signal from the VFD to the SIA08 or other Atkinson Electronics signal isolation modules.