Series F4 External Event Board

The external event output board is a multi-purpose circuit board for use with the Series F4 Ramping controllers. The Series F4 Ramping controller has 8 digital outputs that can perform various functions including event outputs, boost outputs, and compressor control. These outputs provide DC signals to drive devices such as **S**olid **S**tate **R**elays (SSR) or **S**ilicon **C**ontrolled **R**ectifier (SCR) power controllers. The external event board connects to these outputs for additional output flexibility.

The external event board is available with either 2 or 8 outputs. Listed below are the three basic output options:

1) **Switched DC** (A007-1732-F4C2 or C8)
   This option provides a dc voltage for driving SSR and SCR power controllers similar to the built-in output function, but with additional voltage and current capabilities.
2) **SSR with contact suppression** (A007-1732-F4B2 or B8)
   This option provides an SSR contact capable of switching 24 to 253VAC at up to 0.5 amps. Suppressors are contacted across the relay contacts for applications with inductive devices such as relay coils.
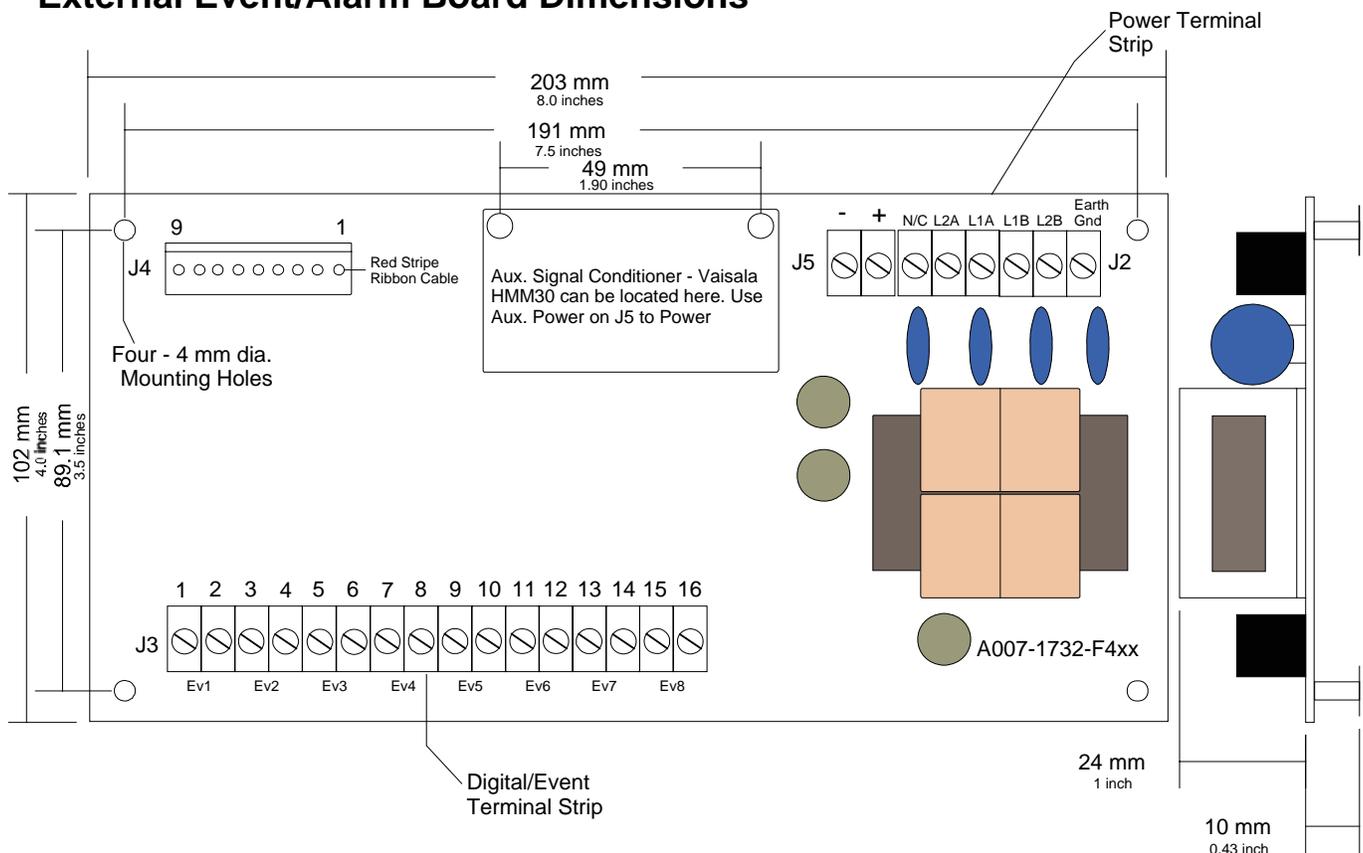3) **SSR without contact suppression** (A007-1732-F4K2 or K8)
   This option provides an SSR contact capable of switching 24 to 253VAC at up to 0.5 amps. These outputs are for driving resistive loads such as AC SSR inputs.
   Note:
   When controlling inductive loads such as relay coils, it is recommended that option 2 above be used or add external contact suppression across the connected load.

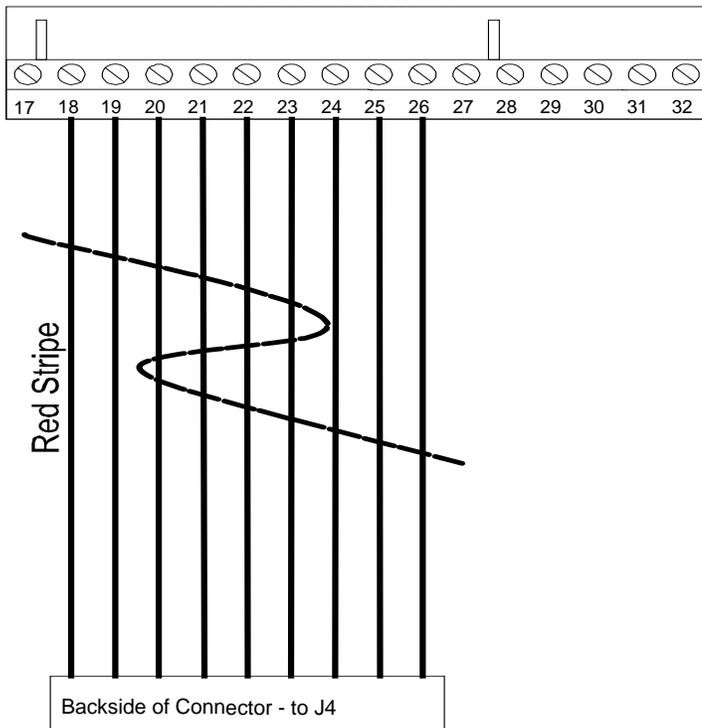## External Event/Alarm Board Dimensions

Series F4 External Event Board

Ordering Information:
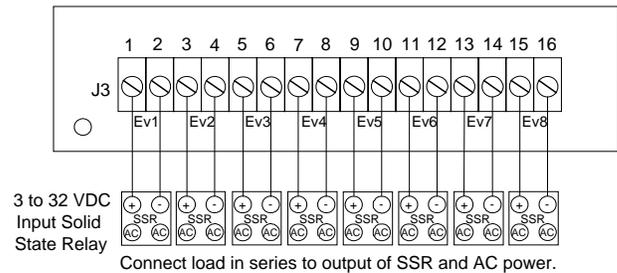
A 0 0 7 – 1 7 3 2 – F 4 _ _

Event Output

C2 = (2) event outputs, switched ⎓(dc), non-isolated
C8 = (8) event outputs, switched ⎓(dc), non-isolated
B2 = (2) event outputs, SSR, Form A, 0.5A, with RC contact suppression
B8 = (8) event outputs, SSR, Form A, 0.5A, with RC contact suppression
K2 = (2) event outputs, SSR, Form A, 0.5A, without RC contact suppression
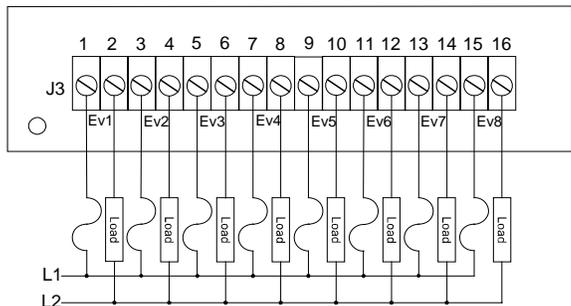K8 = (8) event outputs, SSR, Form A, 0.5A, without RC contact suppression

F4S/D Connector

| 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 |

Red Stripe

Backside of Connector - to J4

Event Output Option "C", Switched (dc)
Model # A007-1732-F4C2 or A007-1732-F4C8

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |

J3

Ev1 Ev2 Ev3 Ev4 Ev5 Ev6 Ev7 Ev8

3 to 32 VDC Input Solid State Relay

+ – + – + – + – + – + – + – + –
SSR SSR SSR SSR SSR SSR SSR SSR
AC AC AC AC AC AC AC AC AC AC AC AC AC AC AC AC

Connect load in series to output of SSR and AC power.

Event Output Option "B" or "K", SSR
Model # A007-1732-F4B2 or A007-1732-F4B8 has on board suppression
Model # A007-1732-F4K2 or A007-1732-F4K8 has no suppression

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |

J3

Ev1 Ev2 Ev3 Ev4 Ev5 Ev6 Ev7 Ev8

Load Load Load Load Load Load Load Load

L1
L2

Event Board Power Wiring

230 VAC
Control Power

L1   L2   Gnd

Power out
for Vasaila
Signal Conditioner

J5   –   +   N/C L2A L1A L1B L2B Earth Gnd   J2

115 VAC
Control Power

L1   L2   Gnd

Power out
for Vasaila
Signal Conditioner

J5   –   +   N/C L2A L1A L1B L2B Earth Gnd   J2