SEC 4853 DAIM
Digital Analog Interface Module

Features

- *Interfaces auxiliary devices to the SEC network*
- *Wired directly to the SEC data highway*
- *Identified by a unique programmable identification number*
- *Can communicate with the SEC 4100 System Monitor*
- *Compatible with the SEC Supervision Plus Software*
- *Explosion proof enclosure*

Operation

The SEC 4853 DAIM (**D**igital **A**nalog **I**nterface **M**odule) is designed to interface auxiliary devices to the Sensor Electronics network. Auxiliary devices range from fire detectors, heat detectors, smoke detectors or any other device that generates a 4 to 20 mA output, alarm and fault relay contacts or a frequency output.

The SEC 4853 DAIM module is wired directly to the data highway and power. The auxiliary device is connected to the DAIM module input. Each SEC 4853 DAIM is identified by a identification number and device name allowing the DAIM module to become an addressable point on the data highway. The DAIM is configured using either the SEC 2500 or SEC Supervision Plus Software. The SEC 4100 System Monitor, Supervision Plus Software and SEC 2500 Hand Held Programmer communicate to the SEC 4853 DAIM Modules on the network via the SEC data highway.

Specifications

Model
SEC 4853 DAIM Module

Part Number
172-4007

Operating Voltage
12 to 32 VDC

Power Consumption
250 mA @ 24 VDC

Input, Analog
4-20 mA source type, max 1000Ω load

Input, Relay
Relay alarm contact input, fault contact input
Unsupervised or supervised

Input, Frequency
4 kHz to 10 kHz

Output, Digital
RS-485 LAN

Output, Analog
4-20 mA source type

Output, Voltage
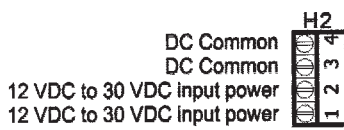Adjustable from +5 to +15 VDC (with 24 VDC input)

Power Output
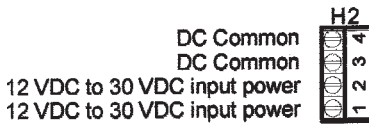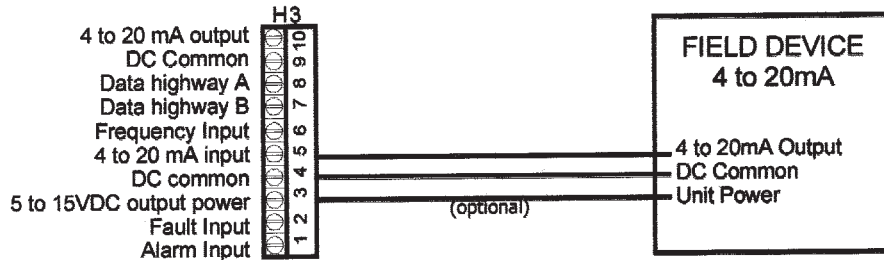150 mA maximum

Housing Dimensions
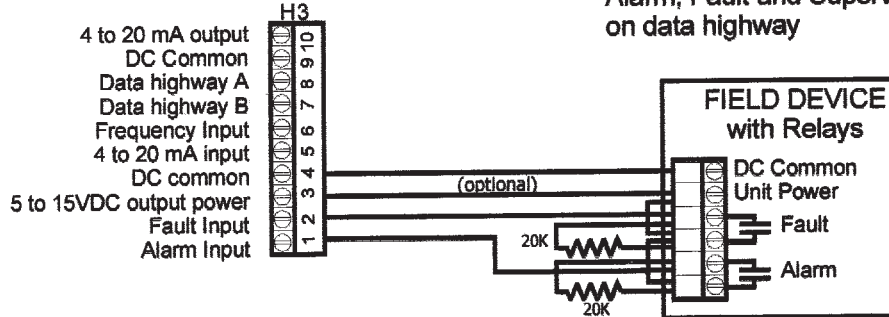5.5" (H) x 5" (W)

Housing Classification
Class 1, Div. 1, Groups B, C and D

Analog Input
Accepts 4 to 20mA input
4 to 20 output that is a mirror of 4 to 20mA input
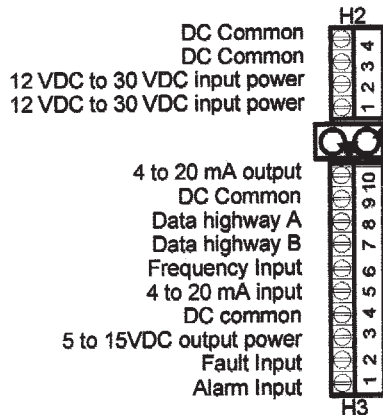Analog level reported on the data highway

H2
- DC Common — 4
- DC Common — 3
- 12 VDC to 30 VDC input power — 2
- 12 VDC to 30 VDC input power — 1

H3
- 4 to 20 mA output — 10
- DC Common — 9
- Data highway A — 8
- Data highway B — 7
- Frequency Input — 6
- 4 to 20 mA input — 5
- DC common — 4
- 5 to 15VDC output power — 3
- Fault Input — 2
- Alarm Input — 1

FIELD DEVICE 4 to 20mA
- 4 to 20mA Output
- DC Common
- Unit Power

(optional)

Relay Inputs
Inputs for Alarm and Fault
Inputs have supervision capability
Alarm, Fault and Supervision status reported on data highway

H2
- DC Common — 4
- DC Common — 3
- 12 VDC to 30 VDC input power — 2
- 12 VDC to 30 VDC input power — 1

H3
- 4 to 20 mA output — 10
- DC Common — 9
- Data highway A — 8
- Data highway B — 7
- Frequency Input — 6
- 4 to 20 mA input — 5
- DC common — 4
- 5 to 15VDC output power — 3
- Fault Input — 2
- Alarm Input — 1

FIELD DEVICE with Relays
- DC Common
- Unit Power
- Fault
- Alarm

(optional)

20K

20K

20k resistor only required if the relays contacts are programmed to be supervised.

H2
- DC Common — 4
- DC Common — 3
- 12 VDC to 30 VDC input power — 2
- 12 VDC to 30 VDC input power — 1

LED for Power; When power is applied LED is on steady

LED for Data transmission; When data is being transferred the LED will flash

H3
- 4 to 20 mA output — 10
- DC Common — 9
- Data highway A — 8
- Data highway B — 7
- Frequency Input — 6
- 4 to 20 mA input — 5
- DC common — 4
- 5 to 15VDC output power — 3
- Fault Input — 2
- Alarm Input — 1

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