

Compact Digital Input Module

11-2. Module Groups

11-2.1. Electronics Modules

There are three Electronics module groups for the Compact Digital Input Module:

- 1C31232G01 provides for 24/48 VDC single-ended inputs.
- 1C31232G02 provides for 24/48 VAC/VDC differential inputs and supports the 16 point individually fused option.
- 1C31232G03 provides for 125 VAC/VDC differential inputs and supports the 16 point individually fused option.

11-2.2. Personality Module

There is one Personality module group for the Compact Digital Input Module:

- 5X00034G01 provides for 16 point individual fusing with a common supply.

This is an optional Personality module that is available for use with the differential input Electronics modules (1C31232G02, 1C31232G03) for applications requiring individual point fusing with a common supply.

Note

This Personality Module is not available for use with Single Ended Electronics Module 1C3123G01.

11-2.3. Foam Insert

In the event that individual fusing is not required, a foam insert is available that fits into the Personality module cavity in the Base Unit and provides wiring information.

- 1C31238H01

Compact Digital Input Module

Table 11-1. Compact Digital Input Subsystem

Range	Channels	Electronic Module	Personality Module or Cavity Insert ¹
24/48 VDC Single-ended	16	1C31232G01	1C31238H01 ¹ (Cavity Insert)
24/48 VAC/VDC & 24VAC Differential	16	1C31232G02	1C31238H01 ¹ (Cavity Insert)
Individually fused with common power supply	16	1C31232G02	5X00034G01 (Fused Pmod)
125 VAC/VDC Differential	16	1C31232G03	1C31238H01 ¹ (Cavity Insert)
Individually fused with common power supply	16	1C31232G03	5X00034G01 (Fused Pmod)
¹ This is an insert that fits into the Personality module position and provides a wiring schematic label for the module.			

All Configurations are CE Mark Certified.

When the 125VAC/VDC Compact Digital Input Emod (1C31232G03) is used in applications without the Fused Pmod (5X00034G01), additional external fusing or other current limiting devices are recommended on the hazardous inputs to provide additional protection to the external wiring and power source.

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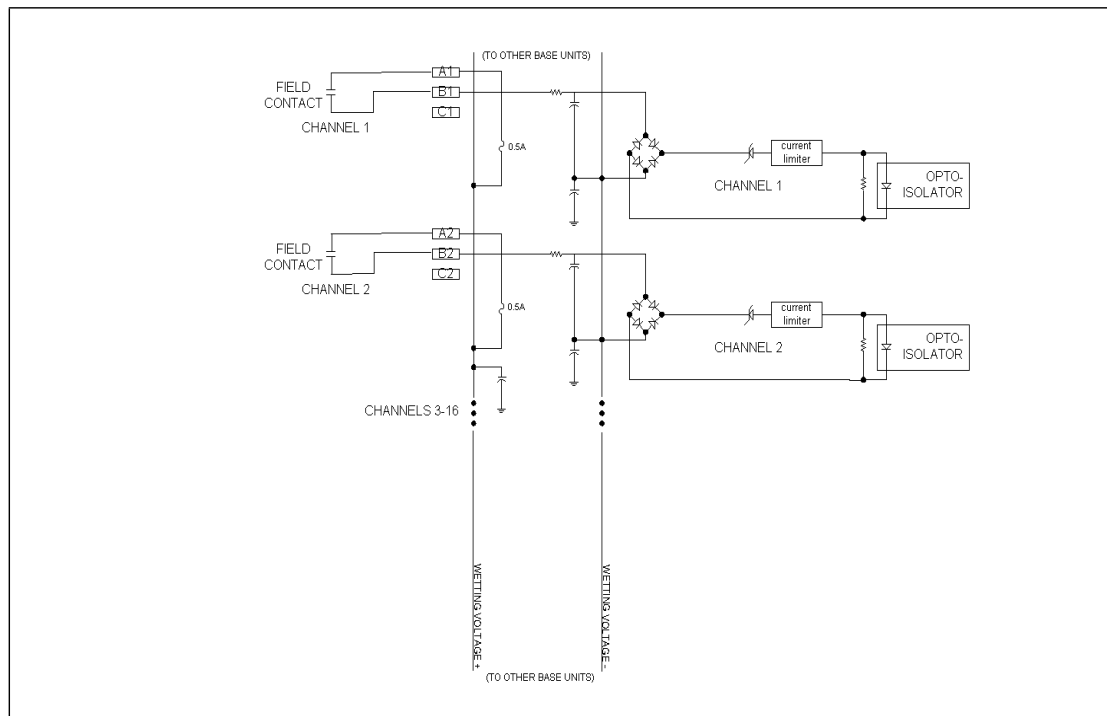


Figure 11-3. 16 Individually Fused Compact Digital Inputs Front End

11-3. External Power Supplies

The required voltage source may be obtained from the internal auxiliary power supply (backplane) or it may be obtained from an external power supply when using the following modules:

- 1C31232G01 single-ended Electronic module (configured for 16 single-ended inputs).
- 1C31232G02 or 1C31232G03 16 point individually fused configuration Electronic modules with 5X00034 Personality module.

If an external voltage power supply is used, see [Appendix D](#) for the steps to be undertaken before connecting the external power supply to the Compact Digital Input module base unit terminal block.



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