interface NIB

Analog Signal & Discrete Non-Incendive Barrier
NIB-TA25mA-1X
34.243.0030.0

Installation and Assembly Instructions

WARNING

Explosion hazard

Follow installation instructions and do not operate with damaged parts. Observe all warnings and notes. This leaflet is intended for use by trained electricians only. Installation of this product should be done by qualified personnel and in compliance with all applicable rules and regulations.

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Introduction

This module provides isolation for a circuit on the load side of the module to be rated as non-incendive. The ASD-NIB allows the use of non-rated wiring to end devices in Class 1, Division 2 areas, subject to the allowances of the Electrical Code. This device is designed to provide an electrical barrier between control devices and hazardous location devices.

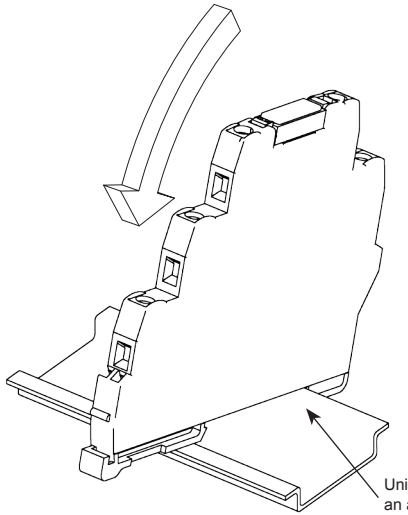
Must be installed in a suitable enclosure.

The barrier must be installed with a low resistance ground connection.

LED Indication:
Green - Normal Operation
Amber - Fault Condition

Amber light typically indicates a ground fault on the output.
At 45 VDC the fault light will illuminate (even with no output connected).

Installation

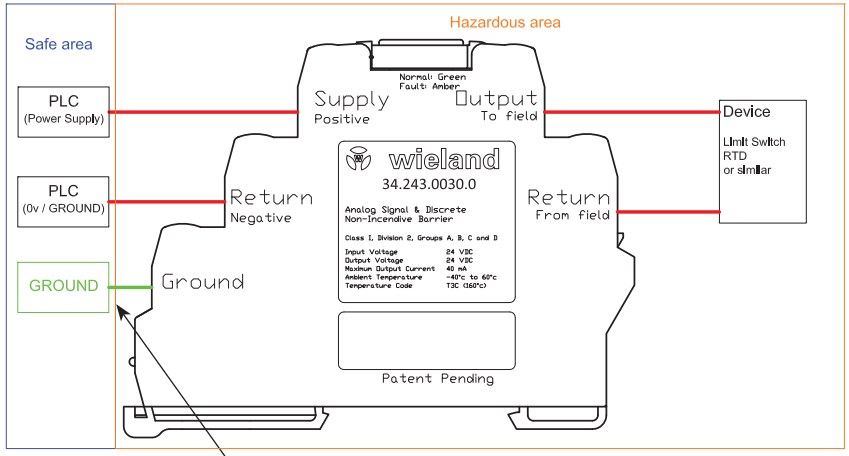


Unit must be securely installed on an appropriate DIN Rail. The DIN Rail must be properly grounded.

Specifications

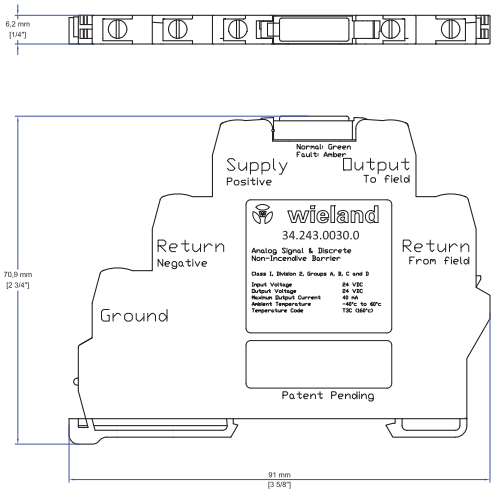
Housing Material	Self-extinguishing polyamide
Degree of Protection	IP20
Temperature Range	-40°C to +60°C
Tempature Code	T3C (160°C)
Input Voltage Range	5 - 30 VDC
Maximum Output Voltage	24 VDC
Nominal Input Current	5 - 37 mA
Nominal Output Current	25 mA
Maximum Output Current	40 mA
Wire Gauge	24 - 12 AWG
Internal Resistance	47 ohms
Maximum Capacitance	Group A/B — 0.27 µF Group C — 0.81 µF Group D — 2.16 µF
Maximum Inductance	Group A/B — 25 µH Group C — 60 µH Group D — 200 µH
Approvals	

Wiring Recommendations



Wiring must be suitable for the area. The input is not protected by the barrier

Dimensions



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