

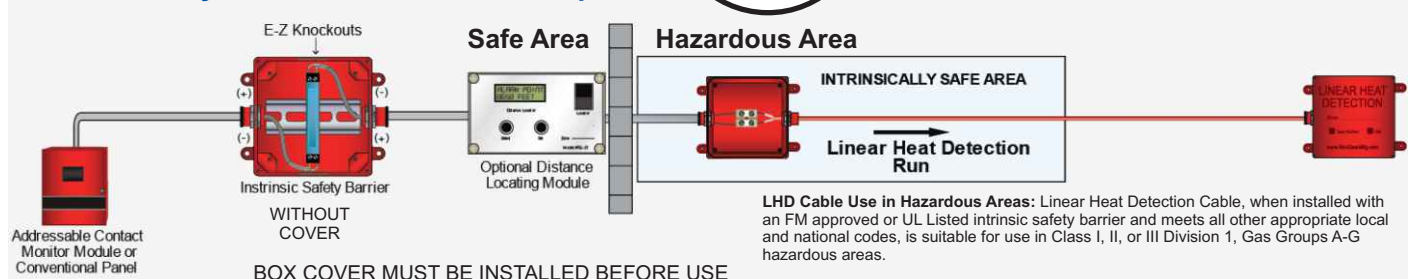
Cut Sheet

Part Number: **RG5224 (Conventional)**
RG5225 (Addressable)

Description

Intrinsic safety barriers are a protection technique for safe separation of linear heat detection equipment in hazardous areas. These barriers are energy limiting and utilized zener diodes which direct voltage spikes to ground. Each barrier contains a replaceable 160mA fuse which protects the barrier from pole reversal and voltage spikes at the input side. Grounding wires are run in conduit or raceways separate from any non-intrinsically safe wiring. One barrier is required for each zone of detection.

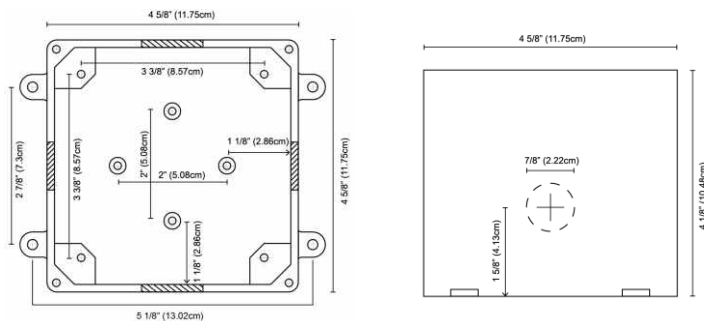
Intrinsic Safety Barrier Connection Example



Installation Notes

- Intrinsically safe wiring must always be routed in conduit or raceways separate from non-intrinsically safe wiring.
- Ground conductor wire shall not be smaller than 12 AWG
- A ground fault on the positive leg of the initiating circuit will result in a false alarm condition.
- Barrier to Ground must not exceed 1 ohm.
- Where possible, the barrier should be mounted as close to the hazardous area as possible. This will minimize the length of intrinsically safe conductors within the nonhazardous location.

Details



Specifications Intrinsic Safety Barrier

Dimensions (W x H x D):	4 5/8" x 4 1/8" x 4 5/8" 11.75cm x 10.48cm x 11.75cm
Weight:	1.07 lbs (.49 kg)
Current Limitation:	Resistive
Rated Voltage:	24VDC - 28VDC max.
Rated Current:	100 mA max.
Leakage Current:	1µA unless stated otherwise
Replaceable Fuse Rating:	160mA per channel
Mounting Location:	Non-Hazardous or Class 1 Div.2
Temperature Effect:	<0.25%/10K
Short Circuit Proof:	Yes, unless stated otherwise
Frequency Range:	100kHz@I _{sc} >50mA
Grounding Method:	Through mounting platform
Operating Temperature:	-4° to +140°F (-20°C to 60°C)
Enclosure Mounting:	35mm DIN Rail in HDJ/ELR Box
Humidity Range:	To 95%, non-condensing

Note: Please refer to all federal, state and local codes, and manufacturer's recommendations prior to design or installation.



SAFE Fire Detection, Inc.
5915 Stockbridge Drive
Monroe, NC 28110
Phone: 704-821-7920
Fax: 704-821-4327
www.safefiredetection.com

This document is provided for informational purposes only and may not be reproduced in whole or part without express written permission from SAFE Fire Detection, Inc. SAFE Fire Detection, Inc. assumes no responsibility for the products suitability for a particular application. Specifications, designs and any information contained herein may change without notice.