

IS Galvanic Isolator Interface (ISGAIFNZ)

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ISO 9001: 2000

International
Standards
Certifications
QAC/R61/0051

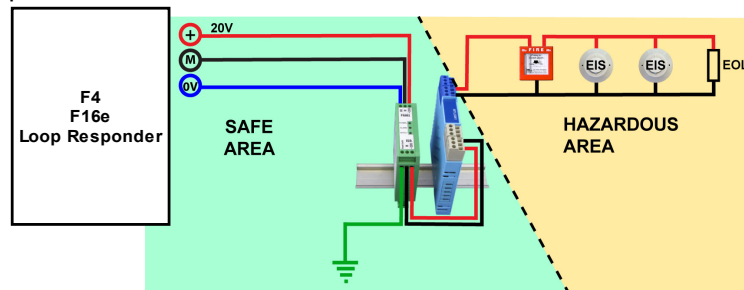
Product Overview:

Pertronic Industries' Galvanic Isolator Interface has been designed to provide a simple, cost effective solution for Hazardous Area installations. The Interface is designed to work with the Pertronic F4, F16e, or Loop Responder, in combination with a Galvanic Isolator. The Galvanic Isolator separates safe and hazardous areas, with detection devices connected to the output of the Isolator. Both the Galvanic Isolator Interface and Galvanic Isolator mount on a standard 35mm DIN rail for ease of installation and maintenance.



Standard Features:

- ▶ Connects between a standard Pertronic conventional zone and one half of a MTL5561 dual galvanic isolator or one half of a KFDO-CS-Ex1.52 dual galvanic isolator.
- ▶ Powered from the conventional zone 20V and 0V.
- ▶ LED indications for Normal (green), Alarm (red), and Defect (yellow).
- ▶ Galvanic Isolator input terminator discriminates between (O/C) wiring faults and MCP / Heat alarms.
- ▶ Distinguishes between smoke and MCP alarms.
- ▶ MCP alarms are latched (until reset by the panel).
- ▶ Provides 10-pulse defect indication (5 x current and 5 x historic defects).
- ▶ Translates hazardous area signals to standard NZS4512-2003/2010 zone levels.
- ▶ Use (NZS4512-1997) non indicating MCP and Heat detectors and/or 1151EISE Smoke or 5451EISE Heat detectors.
- ▶ Recommended maximum number of Intrinsic safe smoke detectors = 12.
- ▶ Failsafe defect monitoring and panel earth defect monitoring in safe area are maintained.
- ▶ Over-voltage protection.
- ▶ Simple to install, mounts on a standard 35mm DIN rail.



Specification:

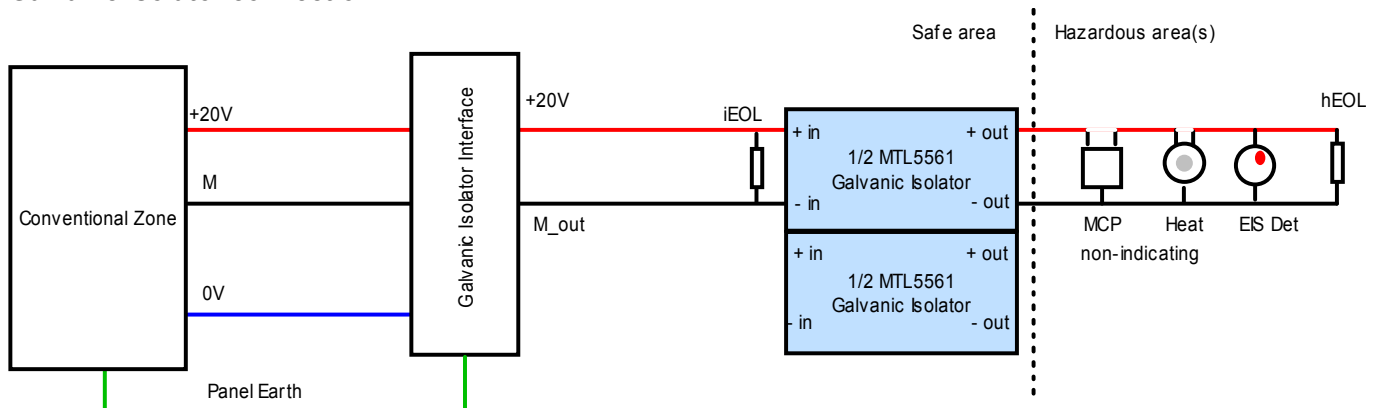
Electrical:	Operating Voltage 20V±5%	Quiescent Current 25mA	Alarm Current Panel dependent	
Environmental: IP32	Operating Temperature Range 0 to 40°C		Humidity 10 to 95% RH (non-condensing)	
Mechanical: 35mm DIN rail mount	Dimensions (H x W x D mm) 78 x 22 x 74	Weight 70g	Material ABS Plastic	Colour Green

Interface Response Conditions:

Condition...	on	Hazardous Side	Safe Side	Conventional Zone Response
S/C		→		High Defect
S/C			→	High Defect
Smoke Alarm		→		Smoke Alarm
High defect/Fault		→		High Defect
Normal		→		Normal
MCP/Heat O/C		→		Indicating MCP Alarm
O/C			→	High Defect

Note: Standard conventional zone responses apply for the applicable conventional zone

Galvanic Isolator connection:



Note: 2nd channel of dual Isolator may be used as a backup spare or for another hazardous zone

Product Codes		
Code	Description	NZFPA Listing
Interface equipment		
ISGAIFNZ	Panel to Galvanic Isolator Interface	
ISMTL5561	MTL5561 dual Galvanic Isolator DIN rail mount 24V	
ISKFDO-CS*	KFDO-CS-Ex1.52 dual Galvanic Isolator DIN rail mount 24V	
Detectors		
1151EISE	1151EIS Intrinsically Safe Ionisation Smoke detector (excl. base)	SS/327
1151EISE+B	1151EIS Intrinsically Safe Ionisation Smoke detector + B401 Base	SS/327
5451EISE	5451EIS Intrinsically Safe Rate of rise Heat detector (excl. base)	
5451EISE+B	5451EIS Intrinsically Safe Rate of rise Heat detector + B401 Base	
B401	B401 Conventional Base	
HDB	Heat Detector Blue 57°C Non Indicating : 1997	PI/201
HDBE	Encapsulated Heat Detector Blue 57°C Non Indicating : 1997	PI/201
HDBY	Heat Detector Yellow 79°C Non Indicating : 1997	PI/201
HDBYE	Encapsulated Heat Detector Yellow 79°C Non Indicating : 1997	PI/201
HDBLK	Heat Detector Black 125°C Non Indicating : 1997	PI/201
HDBLKE	Encapsulated Heat Detector Black 125°C Non Indicating : 1997	PI/201
CPP	Conventional Manual Call Point with PDL switch : 1997	PI/603
CPP-TWP	Conventional Manual Call Point, testable, weather proof : 1997	PI/653 (pending)

* This item is not stocked by Pertronic in New Zealand

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