



GFE-AD-ISO

STANDALONE LOOP ISOLATOR



MADE IN PORTUGAL - EU

GLOBAL FIRE EQUIPMENT S.A.

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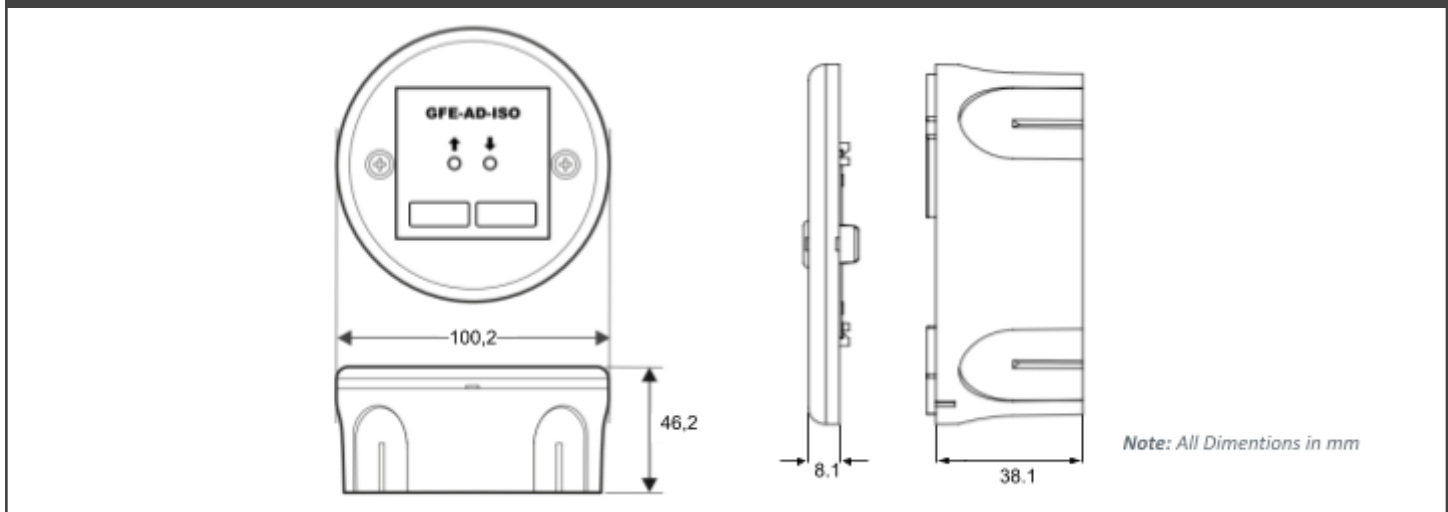
TECHNICAL SPECIFICATIONS

SUPPLY VOLTAGE	Loop Powered - 17V to 30 V DC
LOOP CURRENT - QUIESCENT	1.4 mA (1 ch.) - 1.5 mA (2 ch.) - 1.6 mA (3 ch.)
LOOP CURRENT - ISOLATED LED ON	$I(I_a) + 1.2$ mA for each I/P in alarm / $I_a + 1.4$ mA max.
MAXIMUM SERIES IMPEDANCE (Z_{cmax})	$I_a + 1.0$ mA max.
MAX. LEAKAGE CURRENT (iL_{max})	$I_a + 1.1$ mA for each O/P activated
MAX. RATED SWITCHING CURRENT (I_s max)	2A 30V DC / 0.5A 125V AC
STANDARDS	According to EN54-17
IP RATING / CABLE SIZE	IP50 / 0.5-2.5 mm ²
COLOUR / CASE MATERIAL	White / ABS - Flame Retardant rating 94V0
OPERATION TEMPERATURE / MAX. HUMIDITY	-10°C to 50°C / 95% RH NON-Condensing
DIMENSIONS / WEIGHT	100.2 (D) x 46,2 (H) mm / 105g - 142 g incl packaging
COMPATIBILITY	All GFE addressable systems
INSTALLATION	Wall mounting

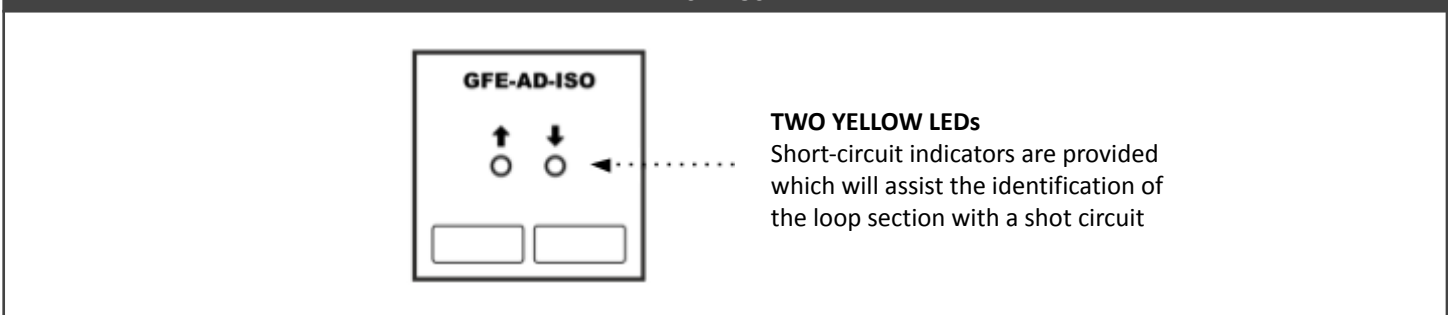
For EN54-13 compliance, please check the control panel manual specifications.

ORDER CODE	DESCRIPTION	CERTIFICATE
GFE-AD-ISO	STANDALONE LOOP ISOLATOR	1328-CPR-0538

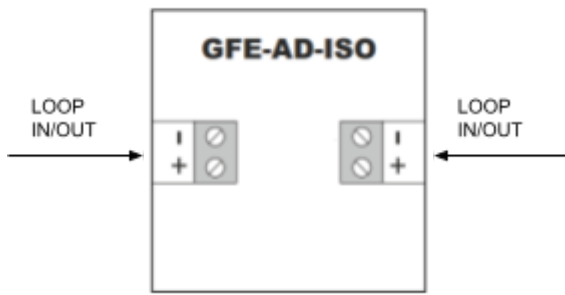
CONNECTIONS



STATUS



WIRING DIAGRAM & OPERATION



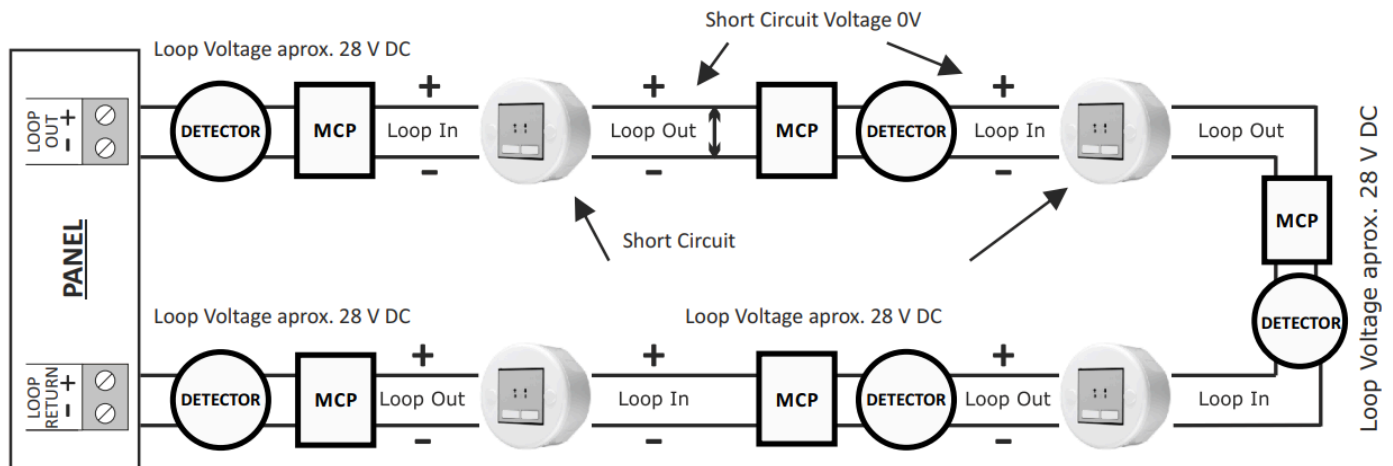
This device is polarized.

During the duration of the short circuit condition between 2 isolators, the loop voltage will be removed (0V) and the 2 LED indicators (Yellow), 1 on each isolator, associated with the section where the short circuit is present will be lit. Panel will report an open/short on the loop fault. Devices between 2 isolators will be removed. If the panel is in ACTIVE mode (Green status LED permanently ON), there will be a number of "Device Removed" faults. The total number of these faults will depend on the number of devices that are connected between the isolators with the short circuit fault. See function 7.1 on the panel.

As soon as the short circuit condition is removed the loop voltage (28 V DC nominal) is reapplied and normal working conditions on the loop are restored. Although, there is no need for the Isolator to be reset but in order to clear the faults the panel has to be reset.

LOOP SCHEMATIC

Maximum no. of devices between 2 Isolators: 32 devices EN54 pt.2



MOUNTING & COMMISSIONING

1. Secure the device to an even surface.
2. Connect according to the provided wiring diagram.
3. Use 2 x M4 screws provided to secure box lid to the module's back box.
4. Place screw covers.

It is important that the system must be fully tested after installation. In normal operating conditions, apply short circuits to the wiring at various points to confirm the correct operation of the Isolators. The LED indicator in the direction of the short circuit should be illuminated on 2 isolators. On one device it will be the "Loop in" LED on the other it will be the "Loop out" LED.

WARNING: This device is polarity sensitive.

TROUBLESHOOTING

Before investigating individual units for faults it is necessary to ensure that the system wiring is fault free. Earth faults on a data loop or ancillary Zone wiring may cause communications errors. Many fault conditions in Addressable systems are the result of simple wiring errors.

Problem

LED illuminated constantly
Failure to isolate a short circuit

Possible Cause

Short Circuit on Loop
Incorrect wiring