GFE-AD-ISO

Standalone Loop Isolator

The GFE-AD-ISOLATOR has been designed to provide protection against short circuit faults on a GFE Junior or Juno-Net Analogue Addressable systems. The isolator protects the loop in the event of a short circuit by disconnecting 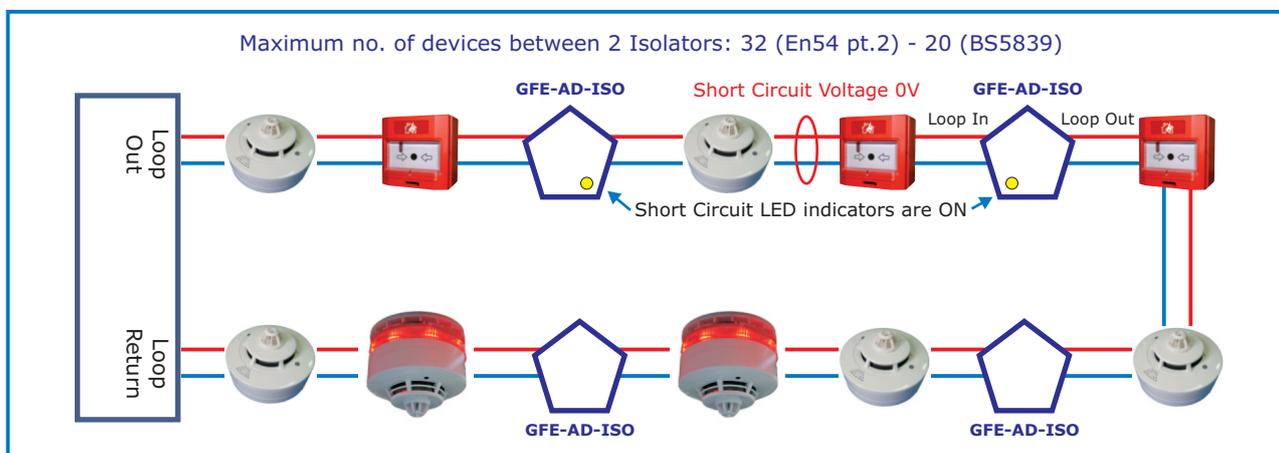the section of the loop where the short circuit has occurred. When the fault has been rectified the isolating circuitry reconnects the affected part of the System.

The GFE-AD-Isolator is delivered in a White round junction box with knockouts that permit easy cable entry. Two Yellow LED indicators are provided to indicate on which side of the Device there is a short circuit (Loop In and Loop Out). This facilitates easy localisation of the fault as it is not necessary to look for two isolators to confirm the location of the affected section.

The GFE-AD-Isolator is polarity sensitive and can be damaged if connected with reverse polarity. Please be sure to note the polarity indicated at the wiring terminals.

Up to 32 devices may be fitted between each isolator (EN54) or 20 devices for BS5839 compliance.

Under Normal conditions the GFE-AD-Isolator provides a low resistance of 0.3Ω in either direction. When a short circuit condition is detected the isolator switches to the open state thereby isolating the Loop "IN" and Loop "OUT" lines. The isolated section is tested every 3 seconds with a voltage pulse and is automatically reconnected when the load resistance is greater than 175Ω.

Maximum no. of devices between 2 Isolators: 32 (En54 pt.2) - 20 (BS5839)

Technical Specifications	
Loop Operating Voltage	17V to 40 V
Loop Current - Quiescent	0.15 mA @ 28 V DC nominal
Loop Current - Isolated LED ON	6.2 mA @ 28 V DC nominal
Max. Cable Size	2.5 mm^2
Max. Humidity	95% RH Non-Condensing
Operating Temperature	0 ºC to 40 ºC
Dimensions	100.0 mm (D) x 40.0 mm (H)
Weight	90 g

Order Code	
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