



## GFE-AD-ISO

### Standalone Loop Isolator

The GFE-AD-ISO 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-ISO 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 loop 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-ISO 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). Under Normal conditions the GFE-AD-ISO provides a low resistance of 0.3 Ohms 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 175 Ohms.

TECHNICAL SPECIFICATIONS	
LOOP OPERATING VOLTAGE	17 V 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 <sup>2</sup>
OPERATING TEMPERATURE	-10°C to 50°C
MAX. HUMIDITY	95% RH Non-Condensing
ENCLOSURE / MATERIAL	White or Red / ABS
DIMENSIONS	100 (D) x 48 (H) mm
WEIGHT - MODULE	119 g
WEIGHT - BOXED	155 g
<b>ORDER CODE</b>	
<b>GFE-AD-ISO</b>	STANDALONE LOOP ISOLATOR