Marine DIN-Rail Dual Isolator

Product Overview

Product	**Marine DIN-Rail Dual Isolator**
Part No.	**55000-770MAR**
Digital Communication	**XP95, Discovery and CoreProtocol® compatible**

Approvals

Product Information

The Marine DIN-Rail Dual Isolator provides, in one housing, two independent isolators which sense and isolate short-circuits on loops and spurs. This unit needs to be installed in a suitable enclosure (Part No. 29600-239/240) or equivalent and secured using the end stops.

Operation

The isolators are loop-powered and are polarity sensitive. A maximum of twenty detectors may be installed between isolators.

When a short-circuit condition exists on either side of the isolator, the yellow LED is illuminated.

Under normal operating conditions, a low impedance is present between the two negative terminals of each isolator channel so that power and signals are passed to the next base in line.

If a short-circuit or abnormally low impedance occurs across the loop, the fall in voltage is sensed and the isolator isolates the negative supply in the direction of the fault. In this condition, the yellow LED of the affected channel will be illuminated. The isolated section of loop is tested using a current pulse every five seconds. When the short-circuit is removed the power will automatically be restored.

Technical Data

All data is supplied subject to change without notice. Specifications are typical at 24V, 23°C and 50% RH unless otherwise stated.

Maximum loop voltage	*28 V dc + 9 V protocol pulses*
Digital communication	*XP95, Discovery and CoreProtocol compatible*
Maximum power-up time	*10 ms*
Isolating voltage	*14 V dc supply in and out connections*
Isolation indicator	*Yellow LED, lit continuously in isolation condition*
Current consumption	
At 18 V	*23 µA*
At 28 V	*47 µA*
At 18 V in isolated state	*4 mA*
Maximum loop current	
Non-isolating continuous	*1.0 A*
Short-circuit switching	*3.0 A*
On resistance	*0.2 Ω*
Reset resistance at 18 V with short after next isolator	*300 Ω*
Operating temperature	*-20°C to +60°C*
Storage temperature	*-30°C to +80°C*
Humidity	*0% to 95% RH (no condensation or icing)*
IP Rating	*designed to IP20*
Standards and approvals	*EN54-17, MED, ABS and VNIIPO*
Dimensions and weight	*110 mm x 107 mm x 20 mm, 95g*
Material	*Polycarbonate*
Design environment	*Indoor use only*

EMC Directive 2014/30/EU

The Marine DIN-Rail Dual Isolator complies with the essential requirements of the EMC Directive 2014/30/EU, provided that it is used as described in this datasheet.

A copy of the Declaration of Conformity is available from the Apollo website: www.apollo-fire.co.uk

Conformity of the Marine DIN-Rail Dual Isolator with the EMC Directive, does not confer compliance with the directive on any apparatus or systems connected to it.

Marine Equipment Directive 2014/90/EU

The Marine DIN-Rail Dual Isolator complies with the essential requirements of the Marine Equipment Directive 2014/90/EU.

36 Brookside Road, Havant
Hampshire, PO9 1JR, UK.
Tel: +44 (0)23 9249 2412
Fax: +44 (0)23 9249 2754
Email: sales@apollo-fire.com
Web: www.apollo-fire.co.uk

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