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.

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