

# 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.

28 V dc + 9 V protocol pulses Maximum loop voltage

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 On resistance 0.2 Ω Reset resistance at 18 V with 300.0

short after next isolator

Operating temperature -20°C to +60°C -30°C to +80°C Storage temperature

Humidity 0% to 95% RH (no condensation or

icing)

IP Rating designed to IP20

EN54-17, MED. ABS and VNIIPO Standards and approvals 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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