

Marine DIN-Rail Zone Monitor



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	17 V dc - 28 V dc
Digital communication	XP95, Discovery and CoreProtocol compatible
Zone voltage (Loop voltage > 22 V) 19 V ± 1 V (Loop voltage > 22 V) loop voltage - 1.5 V	
Maximum current consumption at 28 V	
Switch-on surge, max 250 ms	2.8 mA
Quiescent	4 mA plus detector load
Alarm	11 mA
Short-circuit	11 mA
Maximum quiescent detector load	2 mA
Maximum current through isolator	1 A continuous 3 A peak
Isolating voltage	14 V
End-of-line resistor value	5.1 kΩ ± 5% 1/3W
Stabilisation time on power-up	4 seconds
Maximum capacitor on zone terminals	50 µF
Operating temperature	-20°C to +70°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, EN54-18, MED, ABS and VNIIP0
Dimensions and weight	110 mm x 107 mm x 20 mm, 95 g
Material	Polycarbonate
Design environment	Indoor use only

Product Overview

Product Type	Marine DIN-Rail Zone Monitor
Part No.	55000-773MAR
Digital Communication	XP95, Discovery and CoreProtocol® compatible

Approvals



Product Information

The Marine DIN-Rail Zone Monitor powers and controls the operation of a zone of up to 20 conventional fire detectors from a loop of XP95 addressable detectors and ancillary devices. This unit needs to be installed in a suitable enclosure (Part No. 29600-239/240 or equivalent and secured using the end stops.

Operation

Used to monitor a zone of Orbis conventional smoke detectors and MCPs. Active end-of-line monitoring can be incorporated which allows mixed arrangements of detectors and call points on a zone. Can be used when an analogue addressable system is installed on a site that previously had conventional system fitted.

Instead of removing all the old detectors they can be monitored using the Zone Monitor Unit. It can also monitor zones of Orbis I.S. detectors.

The Marine DIN-Rail Zone Monitor is factory set to return an analogue value of 16 when all detectors on the zone are in the quiescent state and 64 when a detector changes to the alarm state. The unit latches in the alarm state.

A 5.1 Ω end-of-line resistor is used to monitor cables for open and short-circuit faults. Alternatively, an active end-of-line monitor may be used in conjunction with diode bases and a capacitor of up to 50 µF fitted at the unit wiring terminals.

In either case an analogue value of 4 is transmitted during open or short-circuit faults.

The Marine DIN-Rail Zone Monitor is fitted with a bi-directional short-circuit isolator and will be unaffected by loop short-circuits on either loop input or output.

EMC Directive 2014/30/EU

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