

ZoneBarrier

Safeguards network and communications applications against induced surges and transients



- Modular, expandable protection for one to an unlimited number of ports
- Wall, DIN rail or 19" rack mountable
- Wide range of connector types available
- Three stage protection
- Tested to IEC 61000-4-5 and CCITT K17
- 10 year product warranty



The ZoneBarrier Series is a uniquely modular communication line interface protection system for IT networks and industrial communication systems. By providing an effective barrier between uncontrolled transient environments and your valuable electronic systems the ZoneBarrier Series protects you from costly system down time and equipment failure.

The sophisticated hybrid circuitry employed by the ZoneBarrier Series protects your equipment without impeding normal operation. ZoneBarrier protection components comprise a combination of high energy Metal Oxide Varistors (MOVs) or Gas Discharge Tubes (GDTs) with ultra fast diodes and Silicon Avalanche Diodes (SADs). This combination of high quality surge protection components gives the ZoneBarrier Series its characteristic low limiting voltage and high surge current capacity which provides excellent protection.

Designed for multi-port or single-port applications the ZoneBarrier Series offers a flexible, bespoke, surge protection solution that is capable of growing with your requirements. A ZoneBarrier module can be used as a stand-alone device, providing protection for a single work-station perhaps, or as a building block in a surge protection solution as simple or as complex as your requirements, now and in the future.

The small foot print of ZoneBarrier modules allows a single module to be conveniently located near to the equipment it's protecting. Where multiple modules are required ZoneBarrier modules can be mounted on a DIN rail. A DIN rail kit is also available for 19" rack applications and can hold up to 32 modules, providing protection of an impressive 64 10/100Base-T lines while only occupying a 3U space (13.2cm)

All widely used network systems can be protected by the ZoneBarrier Series. ZoneBarrier modules are available for 10/100Base-T, 1,000Base-T, 10Base-2, RS232, RS422, RS423 and others with a range of connector types to suit all common network applications.

Additional protection circuitry should be provided for other parts of the network or other systems which may be interconnected e.g. AC power feeds, telephone wiring, fire and security systems etc. ZoneBarrier modules are available to meet these requirements, please contact your supplier for further details.

Network & Comms Protection

Specification

All figures typical at 25°C (77°F) unless otherwise stated

Ambient temperature limits

- 40°C to +85°C (working)
- 40°F to +185°F (working)

Humidity

- 95% RH (non-condensing)

Casing

- Moulded plastic

Weight

- 0.08Kg (2.8 oz)

Dimensions

- See figure 1

EMC compliance

- BS EN 60950: 1992
- BS EN 61000-6-2: 1999
- IEC 61000-4-5 and CCITT K17

Model	Type	Maximum surge current (kA)	Wires	Working voltage (V)	Limiting voltage (V)	Bandwidth (MHz)	Connectors
24509	RS232	3	4 + Screen	15	27	0.5	Terminal Strip
24510	RS232	3	5	15	27	0.5	Terminal Strip
24511	RS232	3	8	18	27	0.5	RJ45
24512	RS232	3	6	18	27	0.5	MMJ
24513	RS422	10	4 + Screen	8	15	0.5	Terminal Strip
24516	RS423	3	4 + Screen	6	12	3	Terminal Strip
24517	RS423	3	6	6	12	0.5	MMJ
24518	RS485	10	2	5	10	50	Terminal Strip
24523	AS400	10	2	8	15	70	TwinAx
24528	RS422	10	4 + Screen	8	15	50	Terminal Strip
24532	10Base-T	10	4	4	5	130	RJ45
24534	10Base-2	10	Coax	8	30	150	BNC
24537	ArcNet	10	Coax	8	30	70	BNC
24540	100Base-T*	1	UTP	5	10	155	RJ45
24550	100Base-T*	1	UTP	5	10	155	2 x RJ45
24551	100Base-T*	1	UTP	5	10	155	RJ45/110
24563	1000Base-T+	1	8	5	10	350	RJ45

Installation

All ZoneBarrier modules are installed in-line and are identified with "Protected" and "Unprotected" for fail-safe installation.

DIN rail mounting (figure 2)

ZoneBarrier modules can be mounted on any standard T-section DIN rail or on the optional rail assemblies listed below (see the 'To order' section for part numbers and further details). These assemblies will accommodate a mix of up to 32 ZoneBarrier modules and can be mounted on any flat surface or in a 19" rack.

To attach a ZoneBarrier to the rail, simply locate the DIN rail foot of the module over the edge of the DIN rail and then push the ZoneBarrier firmly to secure the unit into place. *Note the DIN rail must be properly earthed.*

Stand-alone installation (figure 3)

To install a ZoneBarrier module as a stand-alone protector, attach an earth lead to the supplied ring terminal and secure this with the self tapping screw provided to the base of the unit. Using screws (or bolts), mount the module on any flat surface.

To order specify -

Model number as per specification table above

Mounting options

- 21605** 5" DIN rail for up to 4 ZoneBarriers
- 21649** 17.5" DIN rail for up to 16 ZoneBarriers
- 24500** 19" DIN rail (with mounting brackets) for up to 32 ZoneBarriers

*Suitable for Cat.5 application, 100Base-T, 100VG, 10Base-T
+Suitable for Cat. 6 application

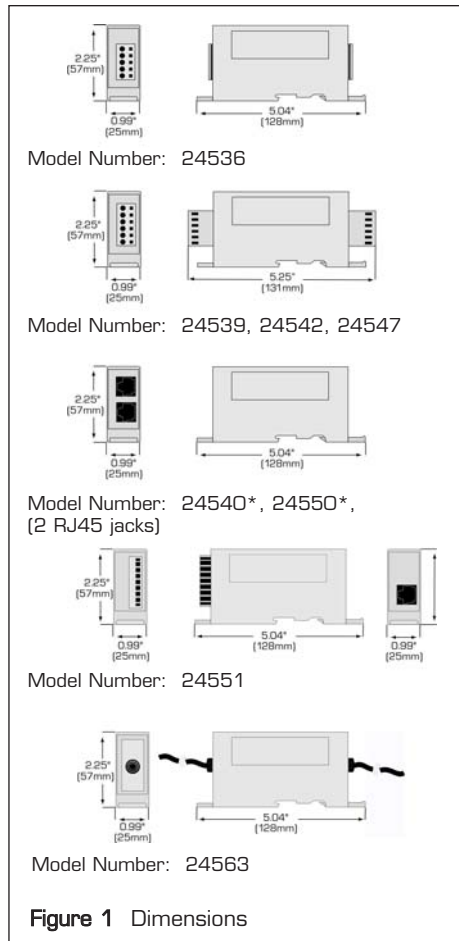


Figure 1 Dimensions

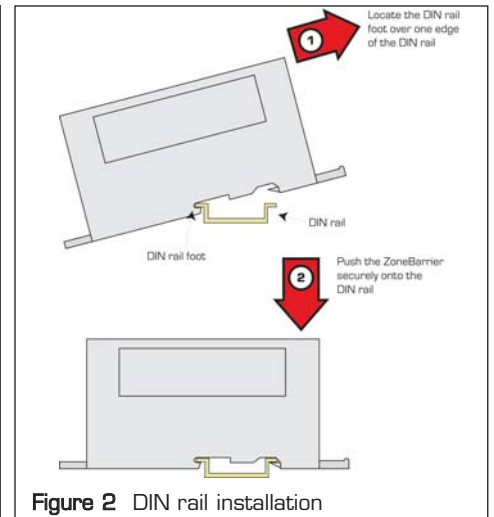


Figure 2 DIN rail installation

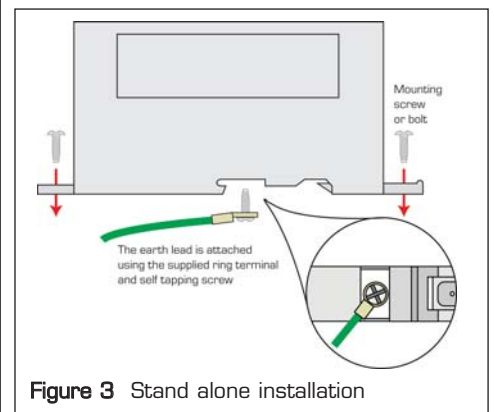


Figure 3 Stand alone installation

Approvals

Note: In accordance with our policy of continuous improvement, we reserve the right to change the product's specification without notice.

Atlantic Scientific ZoneBarrier devices are available from your local MTL office.

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A member of the MTL Instruments Group plc

Country	Standard/Authority	Approved for	Product
United States Canada	UL 497B Listed UL Certified Cat.5	Networks	24528, 24540, 24563

