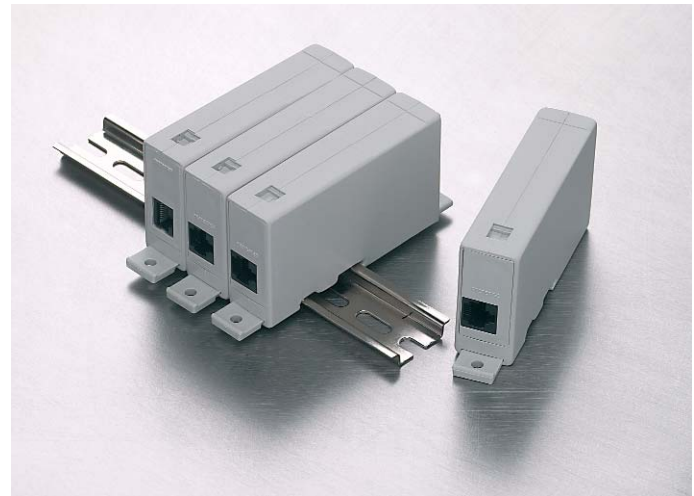


ZoneBarrier

Protects electronic telecommunication devices against induced surges and transients



- Modular, expandable protection for one to an unlimited number of ports
- Wall, DIN rail or 19" rack mountable
- Three stage protection
- UL 497A Listed
- Tested to IEC 61000-4-5 and CCITT K17
- 10 year product warranty



The **ZoneBarrier Series** is a unique, modular protection system for tele-communication equipment. By providing an effective barrier between uncontrolled transient environments and your valuable equipment the ZoneBarrier Series protects you from costly system down time and equipment failure.

Designed for multi-port or single-port applications the ZoneBarrier Series offers a flexible 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 modem or fax machine perhaps, or as a building block in a surge protection solution that exactly fits your requirements.

The **sophisticated hybrid circuitry** employed by the ZoneBarrier Series protects equipment without impeding normal operation. ZoneBarrier protection components comprise of a combination of solid state overvoltage protectors (sidactors) and positive temperature

coefficient (PTC) devices to form three distinct stages of protection. This combination of high quality surge protection components gives the ZoneBarrier Series its characteristic low let-through voltage and high surge current capacity which provides excellent protection.

All common telecommunication systems can be protected by the ZoneBarrier Series. ZoneBarrier modules are available for Leased Line, Digital Data Service, T1, E1 and 2-wire ISDN and are available with a range of connection types.

The small foot print of ZoneBarrier modules allows a single module to be conveniently located near to the equipment it is protecting. Where multiple modules are required in a concentrated area, ZoneBarrier modules can easily be mounted on standard DIN rail.

Optional DIN rail assemblies are available including one suitable for 19" rack applications, which can hold up to 32 ZoneBarrier modules, providing protection of an impressive 32 lines in less than 5.2 inches (or a 3U space).

Additional protection circuitry should be provided for other systems which may be interconnected with your telecommunication equipment e.g. incoming AC power, IT networks and fire and security systems. ZoneBarrier modules are available to meet these requirements.

Telecom Protection

Specification

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

Maximum load current

150mA

Ambient temperature limits

-4°F to +185°F (working)
-20°C to +85°C (working)

Humidity

95% RH (non-condensing)

Casing

Molded plastic

Weight

2.8oz (0.8Kg)

Dimensions

See figure 1

EMC compliance

BS EN 60950: 1992
BS EN 61000-6-2: 1999
BS EN 61010-1: 1993

R&TTE compliance

BS EN 50082-2: 1995
BS EN 41003: 1999

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 the ZoneBarrier module to the rail, simply locate the DIN rail foot of the module over on edge of the DIN rail and then securely push the ZoneBarrier into place. *Note the DIN rail must be properly grounded.*

Stand-alone installation (figure 3)

To install a ZoneBarrier module as a stand-alone protector, attach an ground 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

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

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A member of the MTL Instruments Group plc

Model	Type	Wires	Maximum surge current (kA)	Working voltage (V)	Let-through voltage (V)	Bandwidth	Connectors
24501	Dial up	2	3	200	270	N/A	RJ11/RJ45
24503	Leased line	4	3	75	105	N/A	RJ11/RJ45
24504	Leased line	4	3	75	105	N/A	Terminal strip
24505	Digital data	4	3	75	105	>10MHz	RJ48S
24506	Digital data	4	3	75	105	>10MHz	Terminal strip
24525	Dial up	4	3	200	270	N/A	RJ11/RJ45
24549	ISDN	2	3	75	105	>80MHz	RJ11/RJ45
24558	T1	4	3	16	28	>50MHz	RJ48C
24562	ADSL	4	3	200	270	50MHz	RJ11/RJ45

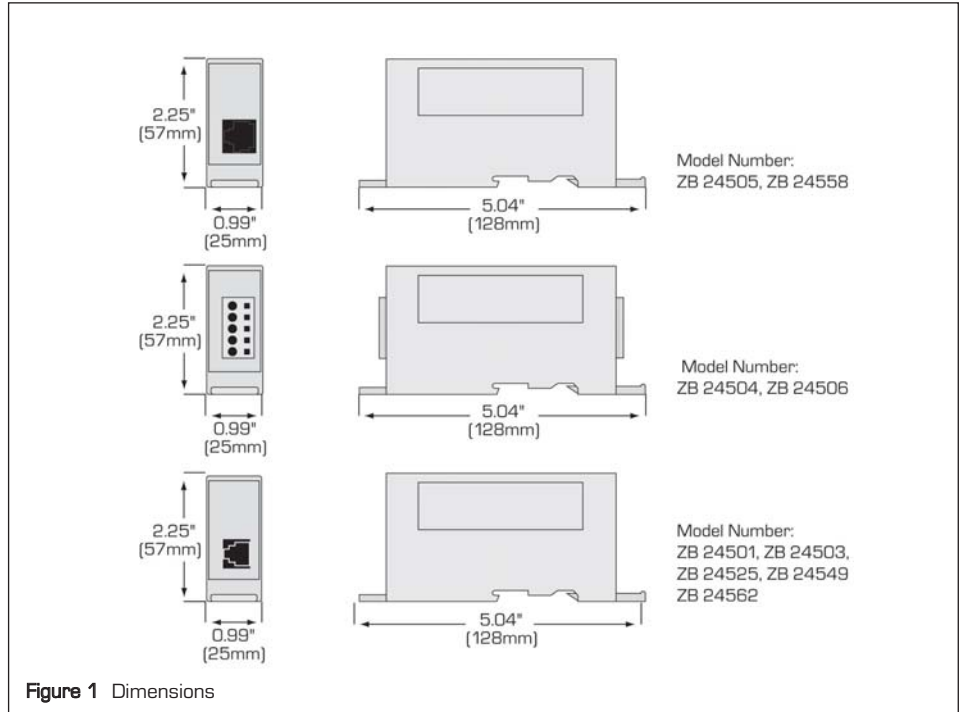


Figure 1 Dimensions

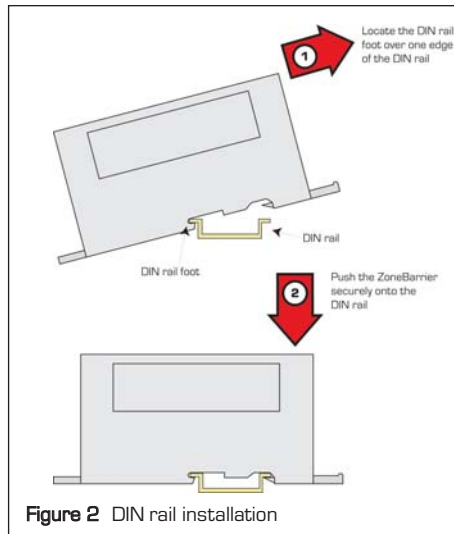


Figure 2 DIN rail installation

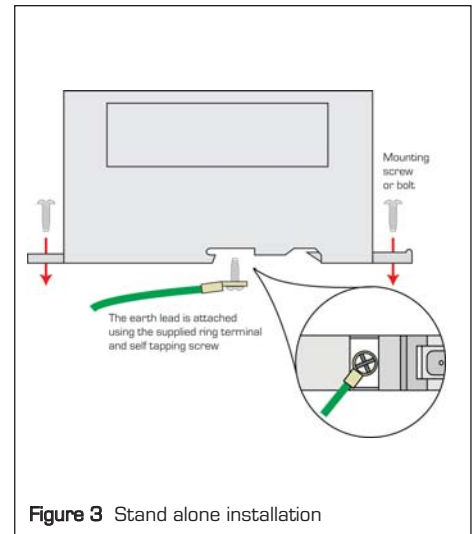


Figure 3 Stand alone installation

Approvals

Country	Standard/Authority	Approved for	Product
United States Canada	UL 497A Listed	Telecommunications	24501, 24503, 24504, 24505, 24506, 24525, 24549, 24558, 24562

