

Low Cost

Failsafe Design

Any Application!

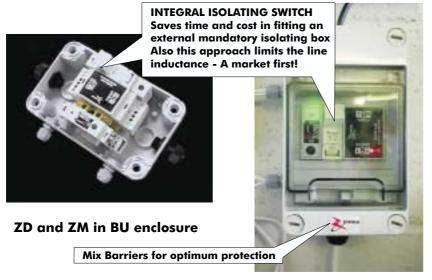
Total Protection - High Energy

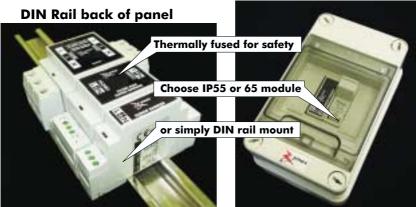


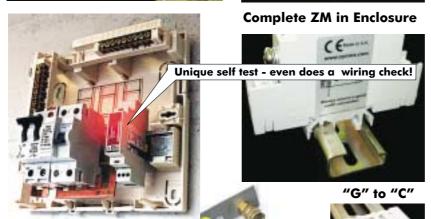
Zymax Innovation more to follow....

## Mounting Options ...

## meet the family!







Shown right is the new IT12 dual BT and 4 gang mains protectorideal for the internet!

**Consumer Unit** 

mounting



**ZEB Earth Bus** 

to easily connect

multiple barriers

Mix and Match- now you can have a fully integrated solution. Choose the barrier for the application then choose the mounting options -IP55 or IP65.

Because they have a DIN rail mount, they can be easily mixed to suit any application. We call this the fully "integrated" range.

Shown here is a PSTN data barrier for a modem and a high spec mains protector and filter in one box. An isolating fuse and switch is incorporated for safety and together with an integral earth connection.

The enclosures are remarkably low cost and because they have a translucent front, the status of any barrier can be easily read manually or remotely using the unique ZT infra-red Tester

Also the lid is hinged so that the test buttons on the ZD barriers can be readily checked for SPD (barrier) integrity.

All Zymax Barriers can also be DIN rail mounted in other supplier enclosures or simply on back of panel/cubicle systems. Because of their shape they can also be mounted in a consumer unit. It is easy to shunt protect an incoming supply or provide a clean and filtered supply to sensitive equipment.

Shown bottom left is the ZEB bus bar that enables easy earth wiring to multiple barriers. Shown bottom right is the G rail adaptor that converts G to C rail mounting.

Why not try our risk analysis on your project to BS6651?

See www.zymax.com



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P02

	Generic	Device	Nominal Voltage	Max Current Surge (kA)	Max Load	Resistance (© per line)	Attenuation (max dB)	Module size n=17,5 mm	Leakage Current (mA)	Let Through Voltage	Band-width	Capacitance Line to Line	Typical Applications - Check the voltage Headroom of the source. e.g. For a 4-20mA transmitter powered from a 24v PSU choose a 33v rated SPD.
	STANDARD High Energy	ZD06 ZD16 ZD33 ZD51 ZD75	6 16 33 51 75	20 20 20 20 20 20	200mA 200mA 200mA 200mA 200mA	33 33	n/a n/a n/a n/a n/a	1 1 1 1	500 5 5 5 5	8 18 35 55 79	17MHz 17MHz 17MHz 17MHz 17MHz	70pF 70pF 70pF	Thermocouples and circuits with less than 6 volts CMOS, Volt-Free Circuits, RS232, RS422, RS485 Current Loops (4-20mA, 0-10mA, etc.), RTD's Rising Volt Current Loops and Controllers Special 75v max. headroom circuits
DATA	Phone & Modem	ZD200 ZD200 BT ZD200 SRJ ZD200 IRJ	200 200 200 200	20 20 20 20 20	500mA 500mA 500mA 500mA	4,7 4,7	n/a n/a n/a n/a	1 2 2 2	5 5 5 5	220 220 220 220	33MHz 33MHz 33MHz 33MHz	70pF 70pF	PSTN, FAX, Modem, ADSL, Telemetry FAX, ADSL, BT 2 wire and 4 wire circuits Screw Terminal option with RJ11 output BT IDC input termination option
	WIDE BAND low Resistance	ZW06 ZW16 ZW33 ZW51 ZW75 ZW400	6 16 33 51 75 400	20 20 20 20 20 20 20	600mA 600mA 600mA 600mA 600mA	3,3 3,3 3,3 3,3	n/a n/a n/a n/a n/a	1 1 1 1 1	500 5 5 5 5 5 5	8 18 35 55 79 420	65MHz 65MHz 65MHz 65MHz 65MHz 65MHz	40pF 40pF 40pF 40pF	Use these barriers for low R and wide Band-Width RS232, RS422, RS423, RS485, Data Highway Plus, Modbus Fieldbus- Foundation 31,25kb/s & Modbus+ Fieldbus-Foundation 2,5Mb/s, WorldFIP Miscellaneous Milltronics EnviroRanger, HydroRanger & HydroRanger Plus
	dc 12v to 36v	ZP18 ZP28 ZP38	18 28 38	19 19 19	10A 10A 10A	0 0 0	50 50 50	2 2 2	1mA 1mA 1mA	25 36 45	100kHz 100kHz 100kHz	100nF	Power Systems - dc. 6v to 38 v Suppress and Filter. Also network power line protection
POWER	SHUNT 110/230v	ZMOV-1 ZMOV-2 ZM1000-1 ZM1000-2	110 230 110 230	19 19 40 40	Shunt Device	n/a n/a	n/a n/a n/a n/a	1 1 3 3	1mA 1mA 1mA 1mA	650 220	n/a n/a n/a n/a	n/a	Mains Supply Shunt Barrier 420J. Use them in IPU option complete with isolating fuse for integrated protection High Energy Shunt Barrier > 1100J (Use 3 off for 3 Phase)
	SHUNT and FILTERED 110/230v	ZM06-1 ZM06-2 ZM20-1 ZM20-2	110 230 110 230	19 19 19 19	6 A 6 A 20 A 20 A	n/a n/a n/a n/a	60 60 55 55	2 2 3 3	1mA 1mA 1mA 1mA	650 220	100kHz 100kHz 100kHz 100kHz	n/a n/a n/a n/a	Mains Supply Barrier and Hi Spec Filter - Provides a clean supply. Choose ZM06 for 6 A max line current and ZM20 for 20 Amp. Again, ideal in a BU enclosure option as they are supplied pre-wired complete with isolating fuse
AERIAL and Co-Ax		ZA90 ZA350	90 350	40 40	50W 800W	-	n/a n/a	n/a n/a	n/a n/a	90 350	3GHz 2GHz	5pF 4pF	Aerial, Co-Ax, PACNET, SCADA , Networks Choose ZA350 for higher power throughput

Zymax reserve the right to alter specifications without notice. These figures are given in good faith and verified as necessary. No legal responsibility can be accepted in conjunction with these figures. They are merely figure of merit that will help in making the final choice of barrier and issued as a guide only. Specifications can also improve so the user is recommended to consult the factory for more information from time to time - see zymax.com. All products though are fully tested and Warranted.

Designed to meet and tested where appropriate to EN60950, EN55022, BS6651, EN410003, EN61000-4-5. These barriers will fit onto DIN rail, Consumer Unit and IP enclosures.

**ZMR MMOV Reader** 

Device Protection Status(Ageing of

Protectors) - useful for preventative

The ZM1000 also tells the ZMR how

many surges it has taken.

maintenance.

Red Led ON = System Working and Protected

OFF = No protection or No power

The ZA is an extremely rugged device and will either

exhibit a simple short or open circuit on failure.

**PUNCH** 

**Status Information** 

**SPD** 

**DC POWER** 

yes

no

Supply

**AERIAL** 

**ZPxx** 

ZAxx

Self Test