

MBP In-line Surge Protectors

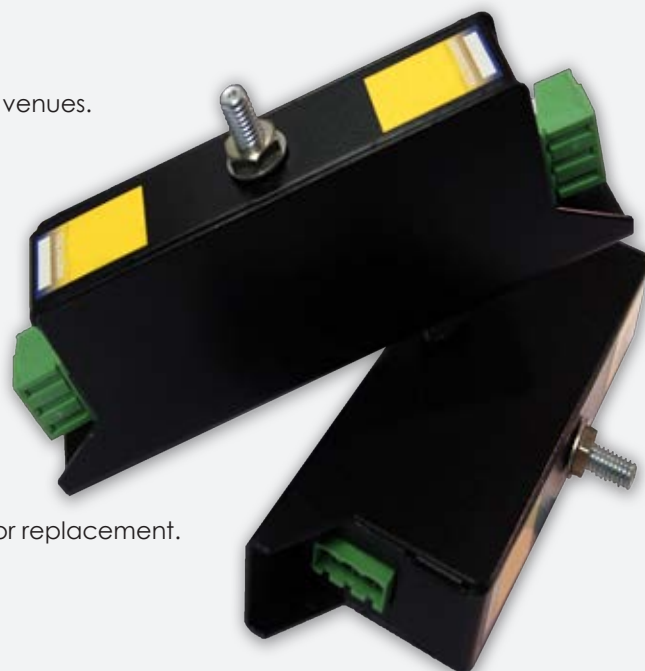
PD Devices In-line Mains Protectors are designed for business and industrial applications, these products are designed to provide protection as standalone modules or in combination with In-line Data Surge Protectors to protect any combination of data and power lines against the damaging effects of transient overvoltage caused by lightning, switching and electrically “noisy” sources.

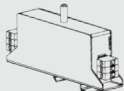
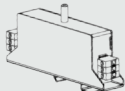
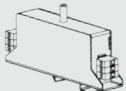
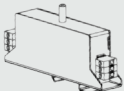
Applications:

- Building-to-building power supplies.
- Long-range data acquisition and display systems. E.g. Sports venues.
- Plant and process control systems.
- Signalling and telemetry to remote sites.
- “Intelligent” stage lighting.
- Computer networks.
- Electronic cash registers (EPOS).
- Closed circuit television (CCTV security).

Standard Features:

- Rugged construction (powder coated steel).
- DIN rail mounting for modular installation.
- Two part push in terminal connectors for ease of installation or replacement.
- Earth stud provided for ease of multiple earthing of units.
- Low “let through” voltage.
- Fast response times.
- High surge handling capabilities



Specifications				
Part Code	MBP/5/110	MBP/5/230	MBP/16/110	MBP/16/230
Description	Mains Barrier Protector	Mains Barrier Protector	Mains Barrier Protector	Mains Barrier Protector
Operating Voltage	110 Volts rms nominal 135 Volts rms Max	230 Volts rms nominal 280 Volts rms Max	110 Volts rms nominal 135 Volts rms Max	230 Volts rms nominal 280 Volts rms Max
Maximum Current Rating	5 Amp	5 Amp	16 Amp	16 Amp
Response Time	<10ns	<10ns	<10ns	<10ns
Full Premium Three Mode Protection (L-N, L-E and N-E)	YES	YES	YES	YES
Power Consumption	Negligible	Negligible	Negligible	Negligible
Maximum Surge Current Handling (8/20µs)	10kA	10kA	10kA	10kA
Leakage Current	150µA	150µA	150µA	150µA
No system impairments auto reset after surge has occurred	YES	YES	YES	YES

Terminals	3mm ² max - Line, Neutral, Earth	3mm ² max - Line, Neutral, Earth	3mm ² max - Line, Neutral, Earth	3mm ² max - Line, Neutral, Earth
Operating Temperature	-25° to +70°C	-25° to +70°C	-25° to +70°C	-25° to +70°C
Location Category BS6651:1999 Annex C	C	C	C	C
Enclosure	Steel - epoxy paint	Steel - epoxy paint	Steel - epoxy paint	Steel - epoxy paint
Response Time	<10ns	<10ns	<10ns	<10ns
Dimensions (in mm)				
W	130	130	130	150
D	45	45	45	50
H	25	25	25	23

LET THROUGH VOLTAGE OF MBP SERIES	
Tests simulating the effects of Lightning and switching transients	Phase/Neutral Phase/Earth
6kV 1.2/50µs open circuit voltage 3kA 8/20µs short circuit current	590V
4kV 1.2/50µs open circuit voltage 2kA 8/20µs short circuit current to IEC 801-5 (draft)	550V
5kA 8/20µs to NFC 61-740	660V
6kV 0.5µs 100kHz ring wave 500A	490V

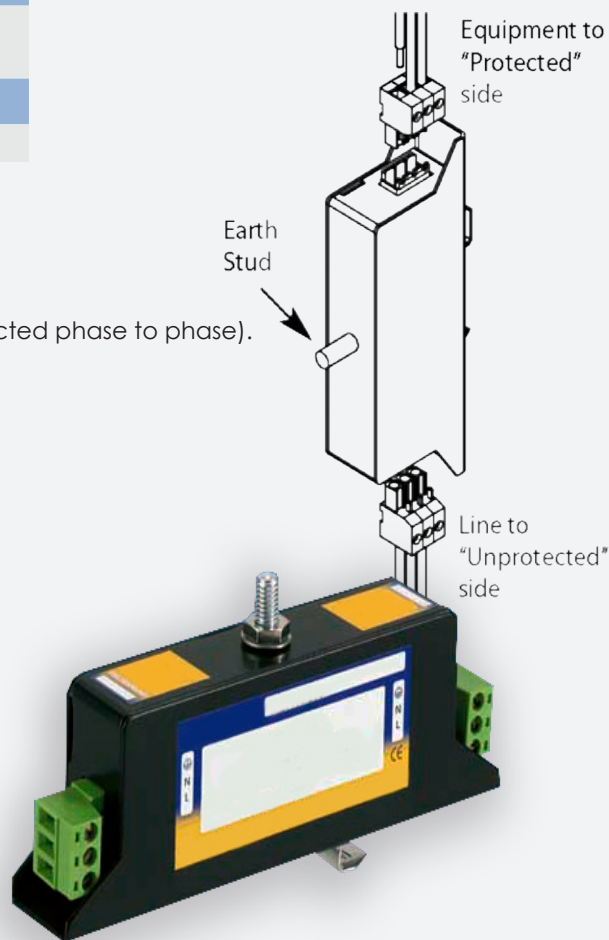
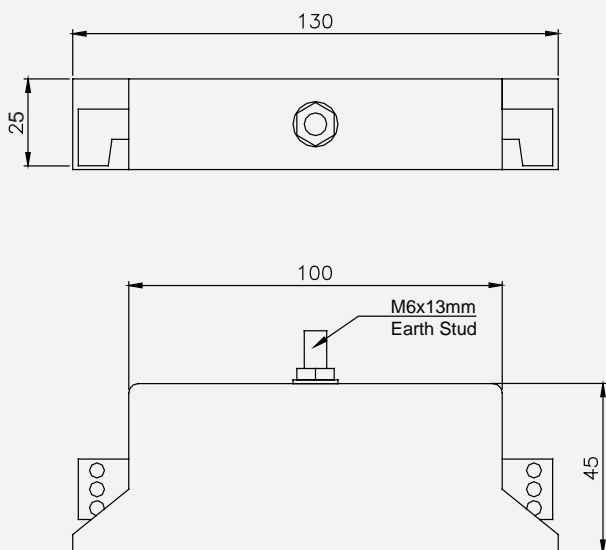
OPTIONAL EXTRAS:

An extensive range of DIN rail mounting kits and IP rated enclosures are available for the above.

Specifications:

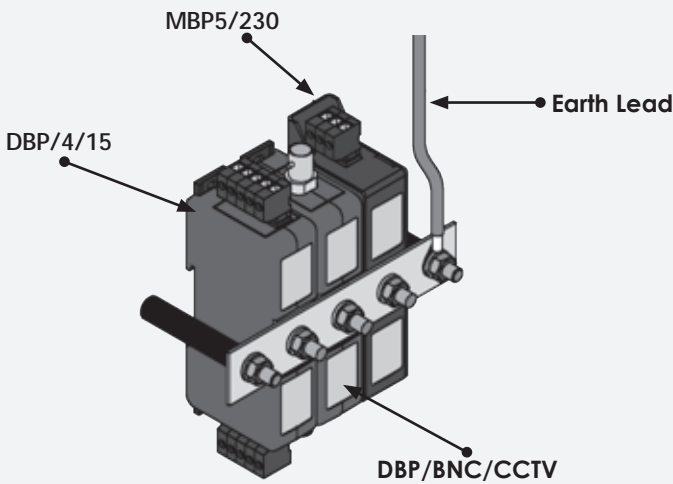
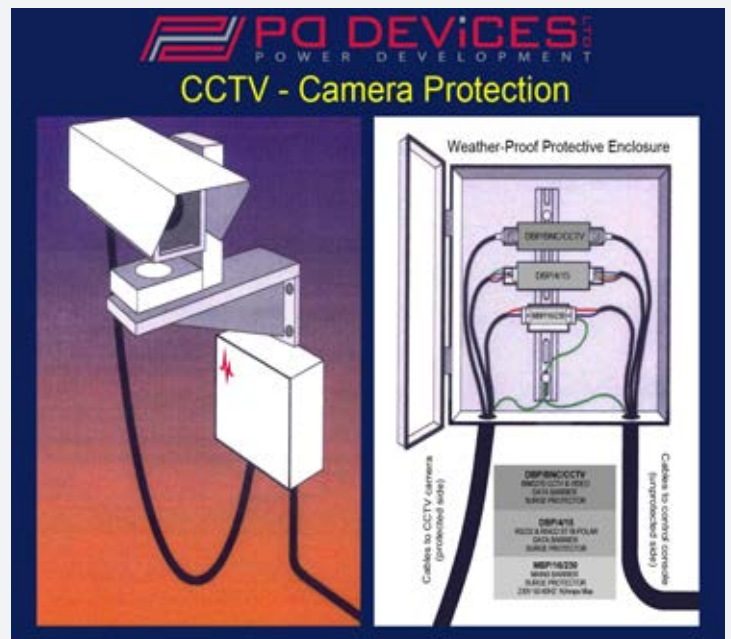
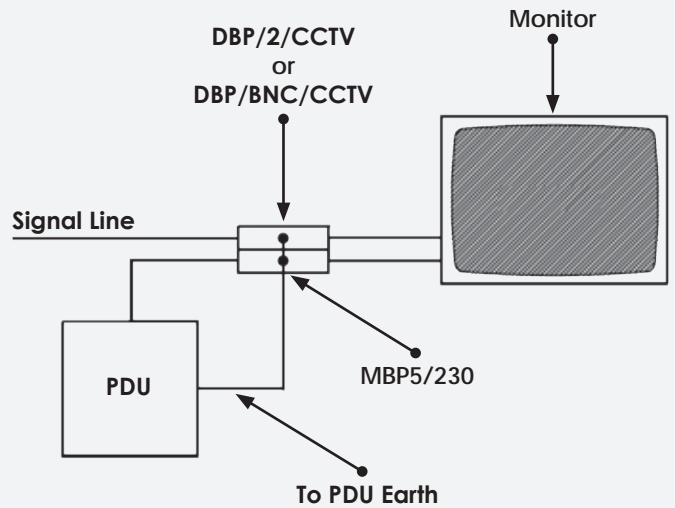
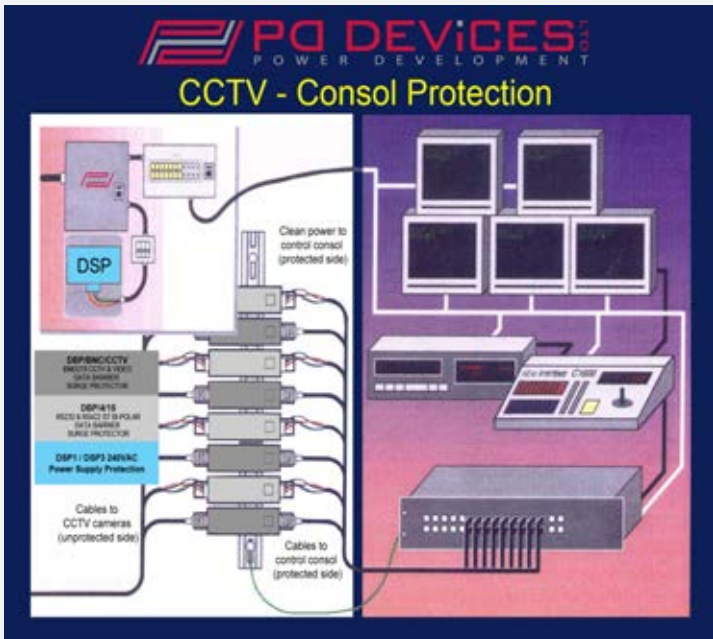
- 5 or 16A units available
- Can be fitted to single or 3 phase systems (NB cannot be connected phase to phase).
- Supply must be fused at or below rated current.

Dimensions



MBP SERIES FOR CCTV PROTECTION

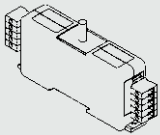
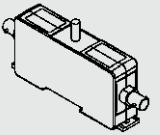
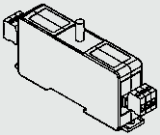
Used with appropriate protectors from our extensive range as illustrated below, the MBP forms an important part of CCTV surge protection systems. Video circuit protection for cabling of CCTV, Consoles, Camera pan and tilt and Control Room Mains should also be installed.



MBP & DBP Application

*The following are ideal for use with the MBP series for CCTV Video System applications, for our extensive range of DBP please look at our DBP series datasheet.



Specifications			
Part Code	DBP/4/15	DBP/BNC/CCTV	DBP/2/CCTV
Description	RS422 ST Bi-polar Barrier	CCTV & Video Barrier	CCTV & Video ST Barrier
Connectors	Screw Terminals 4-Wire	BNC-Type Coaxial	Screw Terminals 2-Wire
Nominal Working Voltage	15V	2V	2V
Maximum Working Voltage	16.5V	6.5V	6.5V
Current Rating (Signal)	1.25A	330mA	330mA
Clamping Voltage ⁽¹⁾	27V	17V	17V
Maximum Surge Current ⁽²⁾	10kA	10kA	10kA
Line Resistance ($\pm 10\%$)	1 Ω	1 Ω	1 Ω
Response Time	<10ns	<10ns	<10ns
System Exposure Level ⁽³⁾	High	High	High
Operating Temperature	-25° to +70° C	-25° to +70° C	-25° to +70° C
Dimensions (in mm) W	135	135	135
D	50	50	50
H	25	25	25

Notes:

(1) 'Let through' voltage when 5kV (10/700 μ s) @ 125A surge waveform applied

(2) 8/20 μ s surge current applied without failure of unit

(3) BS6651:1999 Annex C - Category C exposure level capability

All of the above information, including drawings, illustrations and graphic designs, reflects our present understanding and is to the best of our knowledge and belief correct and reliable. Users, however, should independently evaluate the suitability of each product for the desired application. Under no circumstances does this constitute an assurance of any particular quality or performance. Such an assurance is only provided in the context of our product specifications or explicit contractual arrangements. Our liability for these products is set forth in our standard terms and conditions of sale.