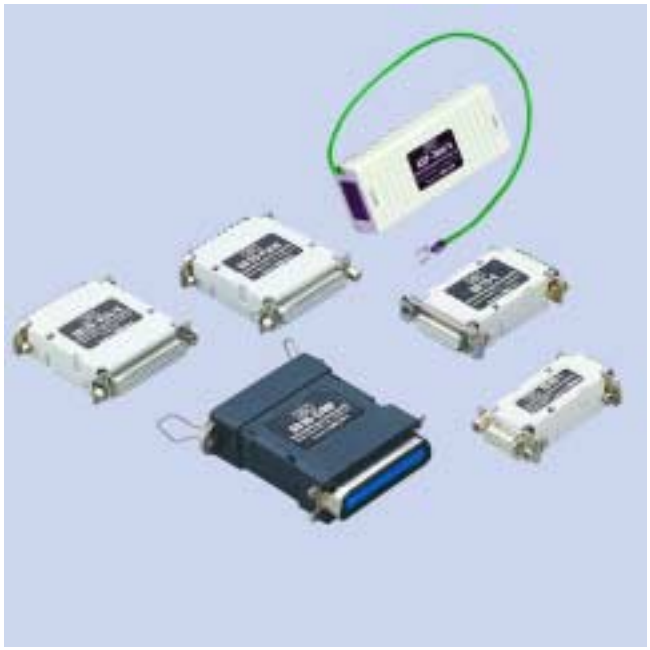
Precision protection devices SD and ASP



Operation and fields of application

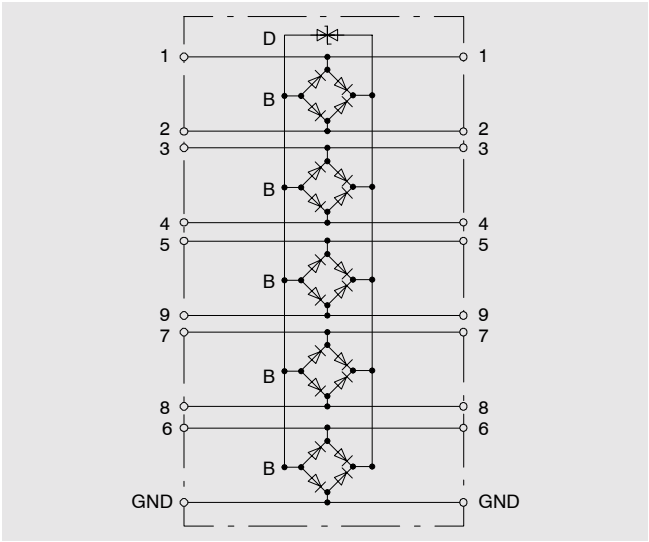
SD series: SD surge protectors are used to protect data, telecommunication and bus lines fitted with D-Sub connectors. The Transzorb diode protection circuit limits incoming transients to harmless values.

ASP series: Data lines with two or four cores can be protected from surges with protectors from the ASP series. A quick-response suppression diode circuit reliably prevents destruction of the connected devices.

Mounting

SD series: SD series adapter devices are installed simply by connecting them between the data line and the device to be protected.

ASP series: The screwless terminals of series ASP precision protection devices allow quick, problem-free installation into the line immediately before the device to be protected. Every ASP surge protector comes with a piece of self-adhesive burr tape for fixing. To achieve optimum surge protection, the earth wire of the ASP surge protector should be connected by the shortest path with the earthed metal chassis of the device to be protected.



Block diagram of SD09-V11/9

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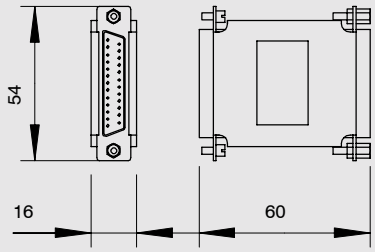
Technical data

Precision protection devices SD		SD09-V24/9	SD15-V24/15	SD25-V24/25	SD09-V11/9	SD15-V11/15	SD25-V11/25	SD09-T	SD15E	SD36-C/MF	SD25-Paral
Nominal voltage	U_N	12 V	12 V	12 V	6 V	6 V	6 V	12 V	5 V and 12 V	6 V	6 V
Max. continuous operating voltage	U_c	18 V	18 V	18 V	7.5 V	7.5 V	7.5 V	18 V	7.5 V and 18 V	7.5 V	7.5 V
LPZ		2 → 3									
Protected cores		Pin 1-9	Pin 1-15	Pin 1-25	Pin 1-9	Pin 1-15	Pin 1-25	Pin 1-9	Pin 1-15	Pin 1-36	Pin 1-25
Max. discharge current (core-core, core-earth)	I_{max}	340 A	340 A	340 A	750 A	750 A	750 A	340 A	750 A	750 A	750 A
Response time	t_A	<10 ns									
Shunt capacitance		<30 pF (>40 Mbaud)									

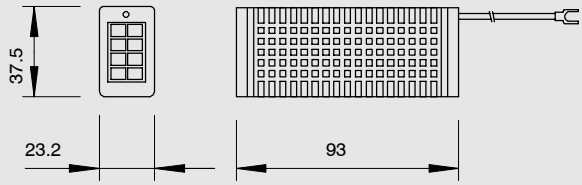
Precision protection devices ASP		ASP-V24T/4	ASP-V11EI/4	ASP-Tele/2
Nominal voltage	U_N	12 V	6 V	110 V
Max. continuous operating voltage	U_c	18 V	7.5 V	240 V
LPZ		2 → 3		
Protected cores		4	4	2
Max. discharge current (core-core, core-earth)	I_{max}	340 A	750 A	250 A
Response time	t_A	<10 ns		
Shunt capacitance		<40 pF		
				Subject to technical alterations

Ordering data

Type	Description	Order no.
SD09-V24/9	D-SUB 9 connector V24	**5080 05 3**
SD15-V24/15	D-SUB 15 connector V24	**5080 15 0**
SD25-V24/25	D-SUB 25 connector V24	**5080 27 4**
SD09-V11/9	D-SUB 9 connector V11	**5080 06 1**
SD15-V11/15	D-SUB 9 connector V11	**5080 16 9**
SD25-V11/25	D-SUB 11 connector V11	**5080 28 2**
SD09-T	D-SUB 9 connector T	**5080 08 8**
SD15-E	D-SUB 11 connector E	**5080 17 7**
SD36-C/MF	IDC connector (Centronics)	**5080 36 3**
SD25/Paral	D-SUB 25 connector, parallel	**5080 29 0**



Type	Description	Order no.
ASP-V24T/4	Four protected cores	**5083 06 0**
ASP-V11EI/4	Four protected cores	**5083 08 7**
ASP-Tele/4	Four protected cores	**5083 10 9**



Features at a glance SD series, ASP series	Advantages in use
Adapter plug (SD series)	Quick, simple installation
Bonding to the metal case (SD series)	No additional protective earthing required
Screwless terminals (ASP series)	Quick, professional installation
Installs directly into the line branch (ASP series)	No additional lines needed