

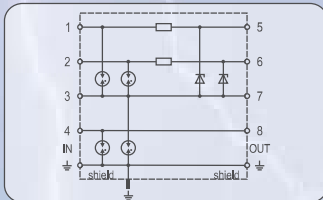
## Surge Protective Devices for Information Technology System



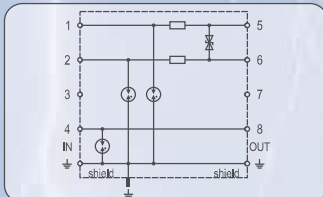
### BlitzShield / BS RK ...

For installation at LPZ 0<sub>b</sub>-2 or higher, protecting the RS422/RS485 devices against lightning and surge damage, providing coarse and fine protection.

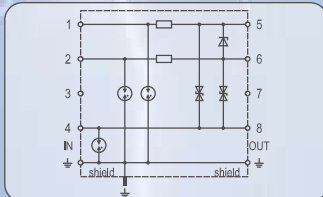
- Small size, only 7mm wide module
- Connected to earth by DIN rail or earth terminal
- With shield terminal (direct or indirect to earth)



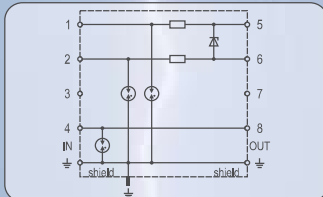
BS RK 5 RS-II\_Basic circuit diagram



BS RK 24 PA-II\_Basic circuit diagram



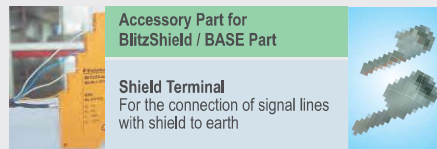
BS RK 5 TC-DI\_Basic circuit diagram



BS RK 24 ST-II\_Basic circuit diagram

Type	BS RK 5 RS-II	BS RK 24 PA-II	BS RK 5 TC-DI	BS RK 24 ST-II
Nominal voltage [ U <sub>N</sub> ]	5V	24V	5V	24V
Rated voltage (max. continuous voltage) (line-line) [ U <sub>c</sub> ]	6V	32V	7.5V	30V
Rated voltage (max. continuous voltage) (line-PG) [ U <sub>c</sub> ]	160V	160V	160V	60V
Rated voltage (max. continuous voltage) (line-shield) [ U <sub>c</sub> ]	---	---	7.5V	160V
Rated voltage (max. continuous voltage) (shield-PG) [ U <sub>c</sub> ]	160V	160V	160V	160V
Lightning impulse current (10/350) [ I <sub>imp</sub> ]	1kA	1kA	1kA	1kA
Nominal discharge current (8/20) [ I <sub>n</sub> ]	10kA	10kA	10kA	10kA
Max. discharge current (8/20) [ I <sub>max</sub> ]	20kA	20kA	20kA	20kA
Voltage protection level at 4kV (1.2/50µs) (line-line) [ U <sub>p</sub> ]	≤ 25V	≤ 60V	≤ 25V	≤ 60V
Voltage protection level at 4kV (1.2/50µs) (line-PG) [ U <sub>p</sub> ]	≤ 800V	≤ 800V	≤ 800V	≤ 800V
Voltage protection level at 4kV (1.2/50µs) (line-shield) [ U <sub>p</sub> ]	---	---	≤ 25V	≤ 1200V
Voltage protection level at 4kV (1.2/50µs) (shield-PG) [ U <sub>p</sub> ]	≤ 800V	≤ 800V	≤ 800V	≤ 800V
Max. load current [ I <sub>n</sub> ]	100mA	400mA	100mA	250mA
Series impedance per line [ R ]	2Ω	1.5Ω	4.7Ω	4.7Ω
Capacitance (line-line) [ C ]	≤ 300pF	≤ 1500pF	---	---
Capacitance (line-PG) [ C ]	≤ 100pF	≤ 100pF	---	---
Response time (line-line) [ t <sub>r</sub> ]	≤ 4ns	≤ 4ns	≤ 4ns	≤ 4ns
Response time (line-PG) [ t <sub>r</sub> ]	≤ 20ns	≤ 20ns	≤ 20ns	≤ 20ns
Operating temperature range	-40°C...+80°C			
Cross-sectional area	0.08mm <sup>2</sup> ~ 2.5mm <sup>2</sup> solid / flexible			
Mounting on	35mm DIN rail			
Enclosure material	Orange thermoplastic, UL94-V0			
Test standards	IEC 61643-21; GB 18802.21; YD/T 1542			
Certification	CE (LVD, EMC)			

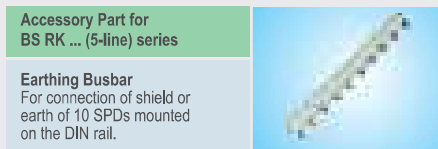
Ordering information				
Type	BS RK 5 RS-II	BS RK 24 PA-II	BS RK 5 TC-DI	BS RK 24 ST-II
Art.-No.	610 560	610 540	610 628	610 500
Packing unit	1 pc(s)	1 pc(s)	1 pc(s)	1 pc(s)



Accessory Part for BlitzShield / BASE Part

**Shield Terminal**  
For the connection of signal lines with shield to earth

Type	T-1 (M-5mm)	T-2 (M-4mm)	T-3 (M-3mm)	T-4 (M-2mm)
Art.-No.	600 011	600 012	600 013	600 014
Packing unit	10 pc(s)	10 pc(s)	10 pc(s)	10 pc(s)



Accessory Part for BS RK ... (5-line) series

**Earthing Busbar**  
For connection of shield or earth of 10 SPDs mounted on the DIN rail.

Type	R-10b (with cover)
Art.-No.	600 210
Packing unit	10 pc(s)