



## Surge Protective Devices for Information Technology System



### BlitzShield / BS RK SC ...

For installation at LPZ 0<sub>s</sub>-2 or higher, applied in protection for 2 single wires of unbalanced interfaces with measuring and controlling system, providing coarse and fine protection.

- Small size, only 6mm wide module
- Connected to earth by DIN rail or earth terminal

| Type  | BS RK SC 12   | BS RK SC 24 | BS RK SC 48 | BS RK SC 110 |
|---|---|-------------|-------------|--------------|
| Nominal voltage [ U <sub>n</sub> ]  | 12V   | 24V         | 48V         | 110V         |
| Rated voltage (max. continuous d.c. voltage) [ U <sub>c</sub> ]           | 14V   | 33V         | 55V         | 170V         |
| Rated voltage (max. continuous a.c. voltage) [ U <sub>c</sub> ]           | 9.5V  | 23V         | 38.5V       | 120V         |
| Nominal current [ I <sub>n</sub> ]  | 0.5A  | 0.5A        | 0.5A        | 0.5A         |
| Lightning impulse current (10/350) (per line) [ I <sub>imp</sub> ]        | 0.5kA   | 0.5kA       | 0.5kA       | 0.5kA        |
| Nominal discharge current (8/20) (per line) [ I <sub>n</sub> ]            | 5kA   | 5kA         | 5kA         | 5kA          |
| Nominal discharge current (8/20) (total) [ I <sub>n</sub> ]               | 10kA  | 10kA        | 10kA        | 10kA         |
| Voltage protection level at I <sub>n</sub> (line-line) [ U <sub>p</sub> ] | ≤ 55V   | ≤ 110V      | ≤ 175V      | ≤ 500V       |
| Voltage protection level at I <sub>n</sub> (line-PG) [ U <sub>p</sub> ]   | ≤ 40V   | ≤ 65V       | ≤ 100V      | ≤ 270V       |
| Voltage protection level at 1kV/μs (line-line) [ U <sub>p</sub> ]         | ≤ 36V   | ≤ 90V       | ≤ 160V      | ≤ 460V       |
| Voltage protection level at 1kV/μs (line-PG) [ U <sub>p</sub> ]           | ≤ 19V   | ≤ 45V       | ≤ 80V       | ≤ 230V       |
| Bandwidth (line-PG) [ f <sub>0</sub> ]                                    | 2.5MHz  | 6MHz        | 10MHz       | 16MHz        |
| Series impedance per line [ R ]   | 1.8Ω  | 1.8Ω        | 1.8Ω        | 1.8Ω         |
| Capacitance (line-line) [ C ]   | ≤ 1.2nF   | ≤ 0.5nF     | ≤ 0.3nF     | ≤ 0.2nF      |
| Capacitance (line-PG) [ C ]   | ≤ 2.4nF   | ≤ 1nF       | ≤ 0.6nF     | ≤ 0.4nF      |
| Response time (line-line) [ t <sub>v</sub> ]                              | ≤ 1ns   | ≤ 1ns       | ≤ 1ns       | ≤ 1ns        |
| Response time (line-PG) [ t <sub>v</sub> ]                                | ≤ 1ns   | ≤ 1ns       | ≤ 1ns       | ≤ 1ns        |
| 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 SC 12 | BS RK SC 24 | BS RK SC 48 | BS RK SC 110 |
| Art.-No.             | 610 211     | 610 215     | 610 217     | 610 219      |
| Packing unit         | 1 pc(s)     | 1 pc(s)     | 1 pc(s)     | 1 pc(s)      |

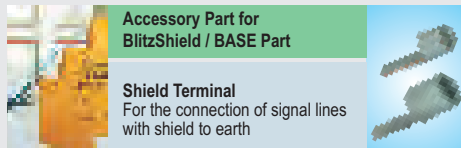
#### Accessory Part for BS RK ... (3-line) series

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

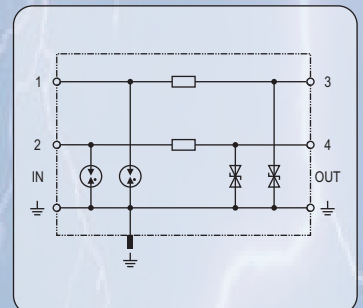


#### Accessory Part for BlitzShield / BASE Part

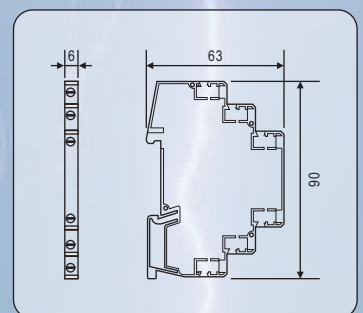
**Shield Terminal**  
For the connection of signal lines with shield to earth



| Type         | R-10a (without cover) | R-10b (with cover) | Type         | T-1 (M-5mm) | T-2 (M-4mm) | T-3 (M-3mm) | T-4 (M-2mm) |
|--------------|-----------------------|--------------------|--------------|-------------|-------------|-------------|-------------|
| Art.-No.     | 600 110               | 600 210            | Art.-No.     | 600 011     | 600 012     | 600 013     | 600 014     |
| Packing unit | 10 pc(s)              | 10 pc(s)           | Packing unit | 10 pc(s)    | 10 pc(s)    | 10 pc(s)    | 10 pc(s)    |



BS RK SC ... \_Basic circuit diagram



BS RK SC ... \_Dimension diagram