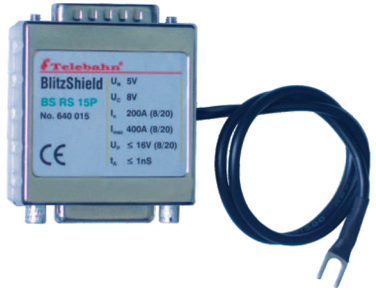
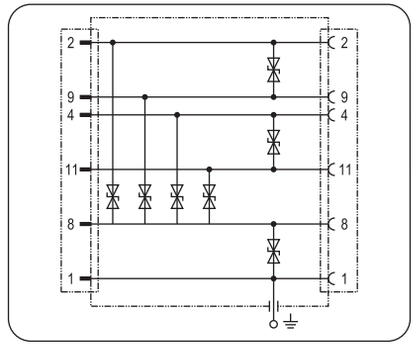
BlitzShield DIREKTRONIK SPD



Basic circuit diagram:



• Technical data

Type		
Art.-No.		640 015
Nominal voltage	U_N	5V-
Rated voltage (max. continuous voltage)	U_C	8V-
Nominal discharge current (8/20)	I_n	200A (line-SG) 800A (SG-PG)
Max. discharge current (8/20)	I_{max}	400A (line-SG) 1300A (SG-PG)
Voltage protection level at I_n	U_p	≤ 16V (line-line) ≤ 16V (SG-PG) ≤ 16V (line-SG)
Voltage protection level at 1kV/μs	U_p	≤ 11V (line-line) ≤ 11V (SG-PG) ≤ 11V (line-SG)
Response time	t_A	≤ 1ns (line-SG) ≤ 1ns (SG-PG)
Max. data transmission rates	V_s	1Mbits/s
Operating temperature range		-40°C...+80°C
Protective lines		2 two-core lines
Pinning		Line: 2/9, 4/11, SG: 8, PG: 1 (standby lines disconnected)
Mounting in		D-Sub, 2 threaded screws
Connection (input / output)		D-sub socket/plug, 15 pins
Shield earthing		Outgoing cable 1.5mm² x 300mm
Enclosure material		Plastic, metallised
Dimension		53mm x 44mm x 20.5mm
Test standards		IEC 61643-21; GB 18802.21; YD/T 1542
Certification		CE (LVD, EMC)

• Product introduction

1. Summary

BS RS 15P is used at LPZ 2-3 boundary, provide surge protection for RS485, RS422 or RS432 signal devices form damages, such as surge voltages, operating over voltages, electrostatic discharging and so on. Designed according to IEC 61643-21; GB 18802.21; YD/T 1542.

2. Main character

- High discharge capacity, low voltage protection level, quick response
- Do not impact the normal work of data management devices and system
- Apply for high speed transmission devices

3. Application

BS RS 15P is designed to protect D-sub signal system; e.g. RS485, RS422 or RS432 signal devices from damages.

4. Application environment

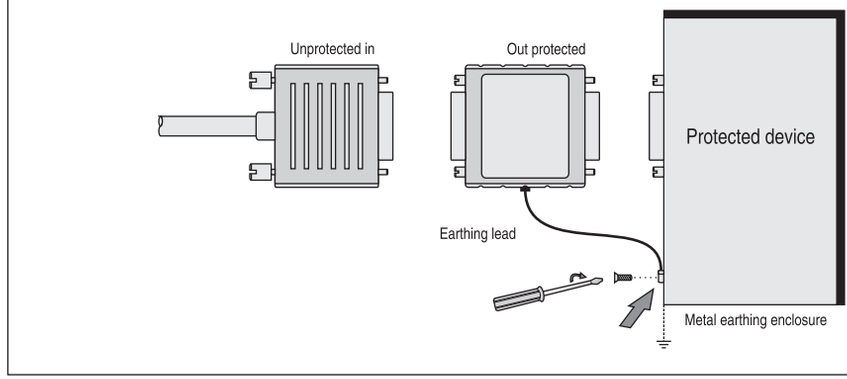
- Temperature: -40°C ~ +80°C
- Relative humidity: ≤ 95% (25°C)

• Installation instruction

1. This product is connected in series to the protected device, installation in the partition of LPZ 2-3 interface; In order to prevent lightning induction, LPZ 0_A-1 and LPZ 1-2 interface must install additional surge protection devices.
2. The out terminal should be connected to the protected devices.
3. SPD's earthing lead must be connected to nearby earthing BusBar or the metal earthing enclosure of protected device.
4. After above, you should ensure the circuit is functionin.

Regularly inspect the operating status, especially after lightning.
Once the communication is off, electrician should check/replace the SPD.

BS RS 15P installation diagram:



WARNING:

1. **The device must be installed by electrically skilled person, conforming to national standards and safety regulations.**
2. **It is recommended that installation should be done under power off condition.**