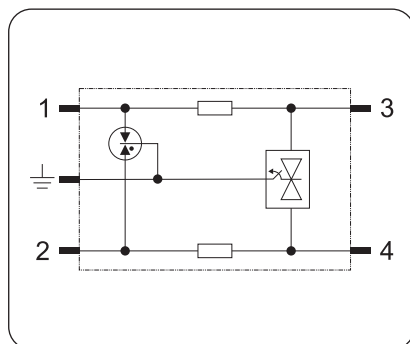


BS L CD 36

Basic circuit diagram:



• Technical data

Type		BS L CD 36
Art.-No.		612 001
Nominal voltage	U_N	36V
Rated voltage (max. continuous voltage)	U_C	45V-31V~
Nominal current	I_L	0.75A
Lightning impulse current (10/350)	I_{imp}	2.5kA
Total nominal discharge current (8/20)	I_{total}	20kA
Nominal discharge current per line (8/20)	I_n	10kA
Open-circuit voltage(1.2/50)	U_{oc}	10KV
Voltage protection level at I_{imp}	U_p	$\leq 140V$ (line-line), $\leq 100V$ (line-PG)
Voltage protection level at 1KV/ μs	U_p	$\leq 112V$ (line-line), $\leq 56V$ (line-PG)
Response time	t_A	$\leq 1ns$ (line-line), $\leq 1ns$ (line-PG)
Bandwidth Line-Line	f_G	7.8MHz
Series impedance per line	R	1.0 Ω
Capacitance	C	$\leq 0.8nF$ (line-line), $\leq 1.6nF$ (line-PG)
Operating temperature range	T_u	-40°C...+80°C
Cross-sectional area		Max. 2.5mm ² 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)

• Product introduction

1. Summary

BS L CD is installed at LPZ 0_n-2 or higher, or directly at the upstream near the protected devices. Provide protection for 2 single wires of unbalanced & balanced interfaces for measuring and controlling system. Designed according to IEC 61643-21; GB 18802.21; YD/T 1542.

2. Main character

- Composed by two parts: the base and the protection module
- The signal will not be disconnected when replacing the module
- High discharge capacity, low voltage protection level

3. Application

BS L CD is mainly used in lightning protection for measuring and controlling system, such as the field bus, input/output interface of the 0-20mA, 4-20mA control line.

4. Application environment

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

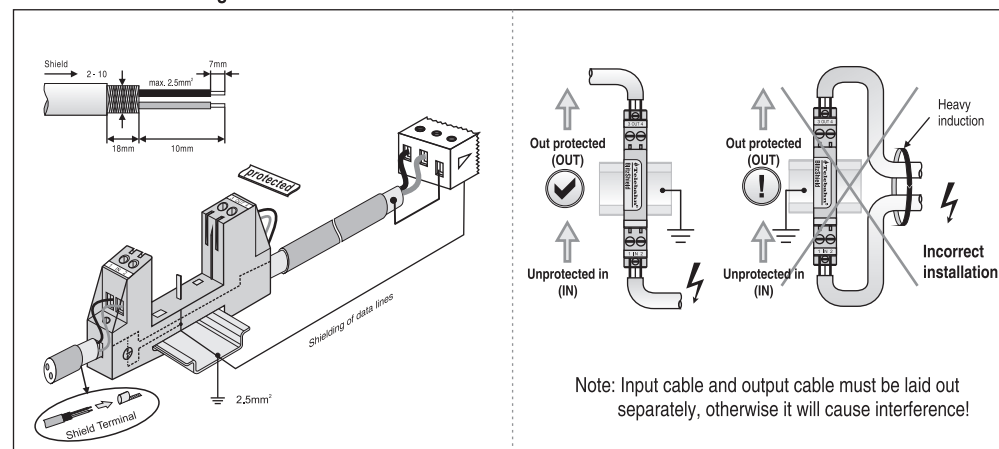
• Installation instruction

1. This product is connected in series to the protected device.
2. Mount the SPD on the 35 mm DIN rail.
3. The out terminal should be connected to the protected devices.
4. There is a SG shield terminal at each input and output side; this must be connected to the data line by shield connection.
5. Earthing by DIN rail, when installed on DIN rail, the DIN rail must be connected to the earth.
6. After above, you should ensure the circuit is functioning.

Regularly inspect the operating status, especially after lightning.

Once the communication is off, electrician should check/replace the SPD.

BS L CD installation diagram:



Note: Input cable and output cable must be laid out separately, otherwise it will cause interference!



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.