



BS TTY 24



## • Technical data

Type		BS TTY 24
Art.-No.		650 001
Nominal voltage	$U_N$	24V-
Rated voltage (max. continuous voltage)	$U_C$	26.8V- / 18.9V~
Nominal current	$I_L$	0.1A
Nominal discharge current (8/20)	$I_n$	10kA
Voltage protection level at $I_n$	$U_p$	$\leq 65V$ (line-line) $\leq 700V$ (line-PG)
Voltage protection level at 1kV/ $\mu s$	$U_p$	$\leq 36V$ (line-line) $\leq 700V$ (line-PG)
Response time	$t_A$	$\leq 1ns$ (line-line) $\leq 100ns$ (line-PG)
Bandwidth	$f_G$	10.0MHz (line-line)
Series impedance per line	$R$	$2.2\Omega$
Capacitance	$C$	$\leq 1nF$
Operating temperature range		-40°C...+80°C
Cross-sectional area		Max. 2.5mm <sup>2</sup> 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 TTY 24 provides surge protection for data transmission devices with four lines. For installation at LPZ O<sub>E</sub>-2 boundary. Designed according to IEC 61643-21; GB 18802.21; YD/T 1542.

### 2. Main character

- Quick response
- Low voltage protection level
- Direct or indirect shield earthing

### 3. Application

BS TTY 24 is for two twisted pairs signal protection.

### 4. Application environment

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

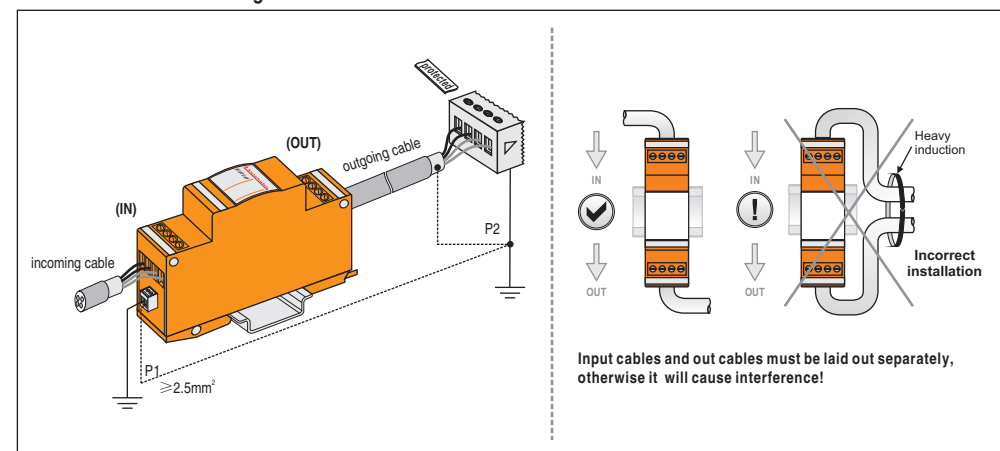
## • Installation instruction

1. This product is connected in series to the protected device.
2. Mount the SPD on 35 mm DIN rail.
3. The output terminals should be connected to the protected devices.
4. There is a earthing terminal at input side. Earth lead must be connected to the lightning earthing system, ideally using 2.5mm<sup>2</sup> cable. The cable should be as short as possible.
5. 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 TTY 24 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.