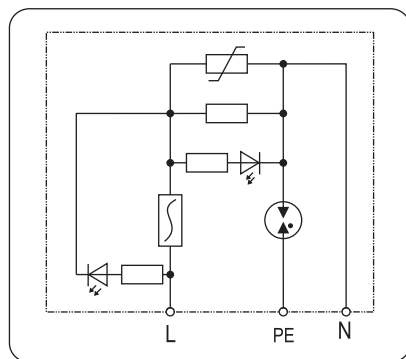
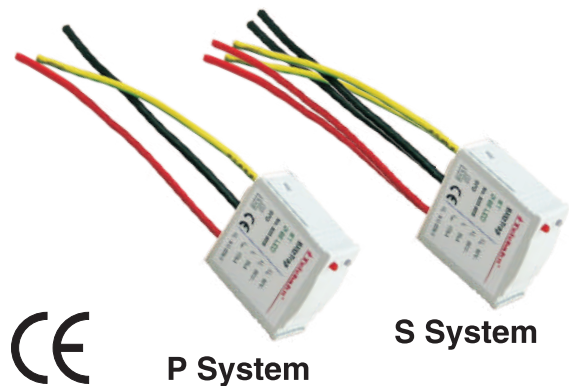


## BT D 275 LED ...

Basic circuit diagram



### • Technical data

Type		BT D 275 LED LP	BT D 275 LED LS	BT D 275 LED HP	BT D 275 LED HS
Order number		820 621	820 623	820 622	820 624
Conductor		3-lines	6-lines	3-lines	6-lines
Nominal voltage	$U_N$	230V-		230V-	
Rated voltage (max. continuous voltage)	$U_C$	275V-		275V-	
Nominal discharge current (8/20)	$I_n$	5kA		10kA	
Max. discharge current (8/20)	$I_{max}$	10kA		20kA	
Combination wave	$U_{oc}$	10kV		20kV	
Voltage protection level	$U_p$	$\leq 1.2kV$ (L-N) $\leq 1.5kV$ (N- PE)			
Response time	$t_A$	$\leq 25ns$ (L- N) $\leq 100ns$ (N-PE)			
Max. backup fuse		16A gL/gG			
Short-circuit withstand capability at max. backup fuse		10kA <sub>rms</sub> , 8/20μs			
Operating temperature range		-25°C...+80°C			
Waterproof protection Level		IP67			
Terminal wires		1.5mm <sup>2</sup> solid, length 120mm			
Enclosure material		Gray thermoplastic, UL94-V0			
Test standards		IEC 61643-11; GB/T 18802.11; YD/T 1235.1			
Certification		CE			

### • Product introduction

#### 1. Summary

Used for LED power source fine protection. Can be soldered with series/parallel connection onto the external power source of electronic equipment to protect from power surges.

Designed according to IEC 61643-11; GB/T 18802.11 standard.

Applied in SPD class III (Class D) for fine protection of electronic equipment, LED drivers etc.

#### 2. Main character

- High discharge capacity, low voltage protection level
- Quick response
- IP67 water resistant
- With LED SPD status indicator; the Green light is on for normal operation, the Red light is on when the SPD is damaged, needs a replacement.

#### 3. Application

Applicable for all installation systems for protecting LED power source driver or equipment.

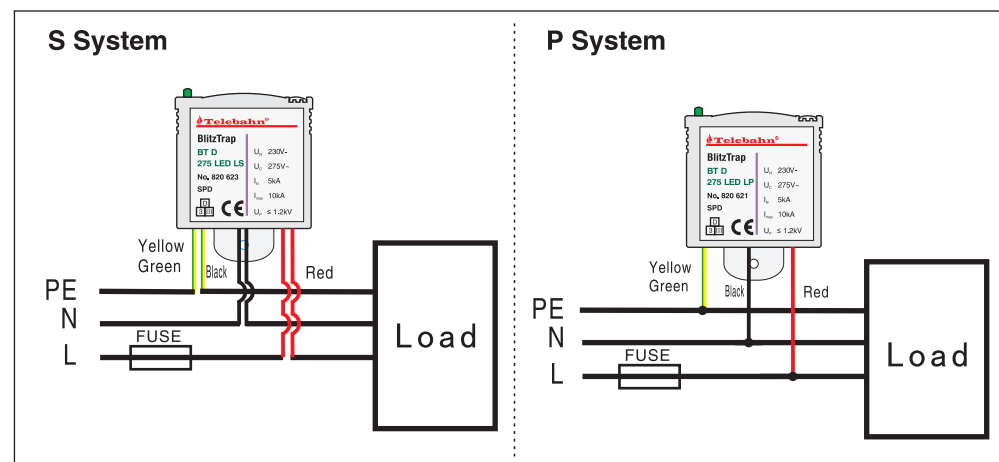
#### 4. Application environment

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

### • Installation instruction

This product can be installed directly with series connection on the front part of the power box or soldered on the PCB (Printed Circuit Board) for protection of the LED power source equipment.

#### 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.