

## MODEL:- TLP-SL12-RS485 Transtech Lightning Protector for RS485 Bus

### GENERAL DESCRIPTION

The TLP-SL12-RS 485 is a very compact **12mm wide** lightning and transient arrester providing protection for equipment connected to the RS 485 multi-point or party line bus by limiting the transient over-voltage to less than twice the normal working voltage.

The TLP-SL12-RS 485 provides protection between all conductors, line to line and each line to earth. It is mounted on to "DIN" rail (46277-3) and offers screen termination via terminals and the earth via a 300 mm earth wire "tail".

The TLP-SL12-RS 485 is suitable for all types of RS485 protocol due to the unique design whereby it has a high speed voltage sensitive switch which only enables the MOV protection when it senses a surge.

### TECHNICAL DATA

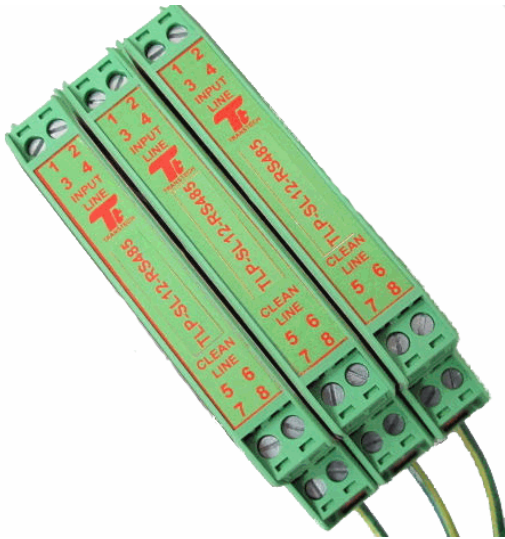
<b>Voltage rating</b>	+/-12V
<b>Normal working volt</b>	19V @ Ip = 1A
<b>Peak let thru volts</b>	30V @ Ip = 30A
<b>Protocols</b>	Modbus   Profibus   Profibus Extender
<b>Current/Resistance rating</b>	
<b>End to End resist.</b>	Less than 0.8 ohms
<b>Max Current</b>	1 Amp
<b>Surge Current Imax</b>	10kA/mode (8/20us) 2 kA/mode (10/350us)
<b>Discharge Power</b>	600W PPPD @ (8/20uS) (Peak Pulse Power Discharge)
<b>Response rating</b>	
<b>Response time</b>	Under 10nsec

### GENERAL SPECIFICATION

Capacitance	@ 1MHz, 75pF
Operating Temp	-10 to 60 Deg C
Storage Temp	-55 to 75 Deg C
Terminals	Self-opening 2.5mm/12AWG
Housing Material	KRILEN
Mounting Style	DIN
Dimensions	100mm X 51.3mm X12.5mm
Weight	60 grams

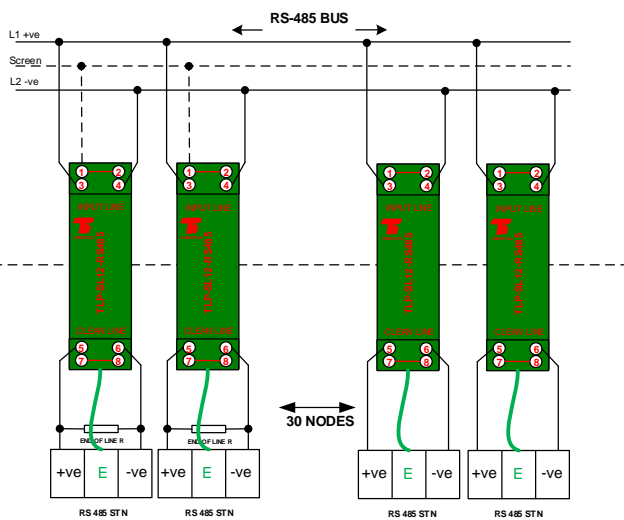
Model	Working Voltage		Frequency.	Imax	In	Let Thru V	Response Time
	Line - Line	Line - Earth					
TLP-SL12-RS485	+/-12VDC	DCV		10kA	2kA	<16	10nS
TLP-SL12-RS485MB	+/-12VDC	DCV		10kA	2kA	<16	10nS
TLP-SL12-RS485PB	+/-12VDC	DCV		10kA	2kA	<16	10nS
TLP-SL12-RS485PB/TDR	+/-12VDC	DCV		10kA	2kA	<16	10nS
TLP-DNET	See separate data-sheet for DeviceNet protector						
<b>Other communication protocols on request</b>							

**TABLE No 2**



### FEATURES

- ◆ Low "let thru" voltage
- ◆ All common protocols MB | PB | PB/TDR
- ◆ Protection between ALL lines
- ◆ Fast snap on DIN rail mounting
- ◆ Fail to safe status design
- ◆ High speed switch technology to prevent signal attenuation
- ◆ Low line losses (volt drop)
- ◆ Designed and manufactured to ISO 9001
- ◆ C-Tick/ CE Compliant
- ◆ IEC 1000-4-2 & EN50082
- ◆ IEC 61643-1 and IEC 62305-4
- ◆ AS1768:2003



**CONNECTION SCHEDULE**

