

# **DATA SHEET** – Communication – Surge Protectors

Subject to change without notice

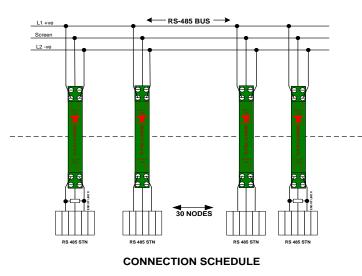
MODEL:- TLP-SL12-RS485

Transtech Lightning Protector for RS485 Bus

## **GENERAL DESCRIPTION**

#### **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



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

Current/Resistance rating End to End resist.

Voltage rating Normal working volt Peak let thru volts Peak let thru volts

Protocols

Max Current

Surge Current Imax

Discharge Power

Response rating

Response time

+/- 12V 19V @ 1p = 1A 24V @ 1p = 10A

ModBus | ProfiBus | ProfiBus Extender

Less than 0.6 ohms 1 Amp 10kA/mode (8/20us) 2 kA/mode (10/350us)

> 400W PPPD @ (8/20uS) (Peak Pulse Power Discharge)

Under 10nsec

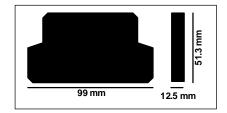
### **GENERAL SPECIFICATION**

Capacitance Operating Temp Storage Temp Terminals Housing Material Mounting Style Dimensions Weight

@ 1mMz, 75pF -10 to 60 Deg C -55 to 75 Deg C Self-opening 2.5mm/12AWG KRILEN DIN 100mm X 51.3mm X12.5mm 60 grams

Model	Working Voltage	Frequency.	Imax	In	Let Thru V	<b>Response Tin</b>
	Line - Line			15x8/20us	1p @ 1Amp	
TLP-SL12-RS485	+/-12VDC	DCV	10kA	2kA	>24	10nS
TLP-SL12-RS485MB	+/-12VDC	DCV	10kA	2kA	>24	10nS
TLP-SL12-RS485PB	+/-12VDC	DCV	10kA	2kA	>24	10nS
TLP-SL12-RS485PB/TDR	+/-12VDC	DCV	10kA	2kA	>24	10nS
TLP-DNET	See separate data-sheet for DeviceNet protector					
Other communication	protocols on requ	est				

TABLE No 2



DESIGNED & MANUFACTURED by: Transtech Electronic Controls Pty Ltd Perth W.A. ABN: 21 070 629 499 Design changes may occur in the interests of product performance & development