

MODEL:- TLP-SL12 xxL

Transtech Lightning Protector for LV Instrument Loops – 1 Channel.



GENERAL DESCRIPTION

The TLP-SL12-xxL is a very compact single Channel **12mm wide** lightning and transient arrester providing protection for equipment with low voltage digital or analogue inputs, limiting the transient over-voltage to less than twice the normal working voltage.

The TLP-SL12-xxL 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”.

TECHNICAL DATA

Voltage rating	
Normal working voltage	+/- 05, 12, 15, 18, 24, 30, 48 Vdc
Peak let thru volts	see Table 2
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Current/Resistance rating	
End to End resist.	Less than 6 ohms
Max Current	2 Amps
Surge Current:	
I_{max}	10kA/mode (8/20us) – total 20kA
	2 kA/mode (10/350us)
I_n	4kA per mode
Discharge Power	-
Leakage Current	Less than 1microamp @ 25C
Response time.	Under 10nsec

GENERAL SPECIFICATION

Capacitance	@ 1mMz, 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	110mm X 52mm X12mm
Weight	60 grams

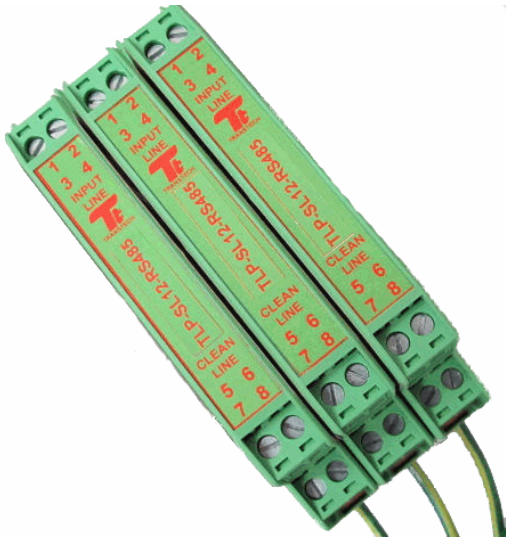
WIRING/CONNECTION NOTE:

The TLP-SL12-xxL series must be connected the correct way around. Terminals 1-2 are always the field input and terminals 7-8 (clean lines) must always input to the equipment being protected.

Model	Working Voltage Frequency.		I _{max}	I _n	Let Thru V	Response Time
	Line - Line					
TLP-SL12-05L	5V	DCV	20kA	4kA	<7	10nS
TLP-SL12-12L	12V	DCV	20kA	4kA	<16	10nS
TLP-SL12-15L	15V	DCV	20kA	4kA	<19	10nS
TLP-SL12-18L	18V	DCV	20kA	4kA	<23	10nS
TLP-SL12-24L	24V	DCV	20kA	4kA	<41	10nS
TLP-SL12-30L	30V	DCV	20kA	4kA	<41	10nS
TLP-SL12-48L	48V	DCV	20kA	4kA	<75	10nS

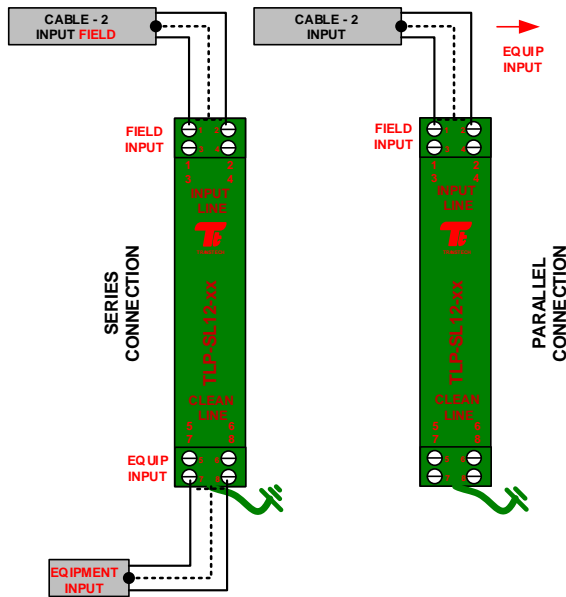
Other Voltages available - also in ACV please contact factory

TABLE No 2



FEATURES

- ◆ Low “let thru” voltage
- ◆ 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

