

MODEL:- TLP-SL12 xxD

Transtech Lightning Protector for LV Instrument Loops – 2 Channel.

GENERAL DESCRIPTION

The TLP-SL12-xxD is a very compact 2 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-xxD 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 Amp
Surge Current:
I_{max} 10 kA/mode (8/20us) – total 20kA per Channel
 2 kA/mode (10/350us)
I_n 4 kA per mode.

Discharge Power -
Leakage Current less than 1 micro amp @ 25C
Response time. Under 10nsec

GENERAL SPECIFICATION

Capacitance -
Operating Temp -10 to 60 C
Storage Temp -55 to 75 C
Terminals Self-opening 2.5mm/12AWG
Housing Material KRILEN
Mounting Style DIN
Dimensions 110mm X 52mm X12mm
Weight 60 grams

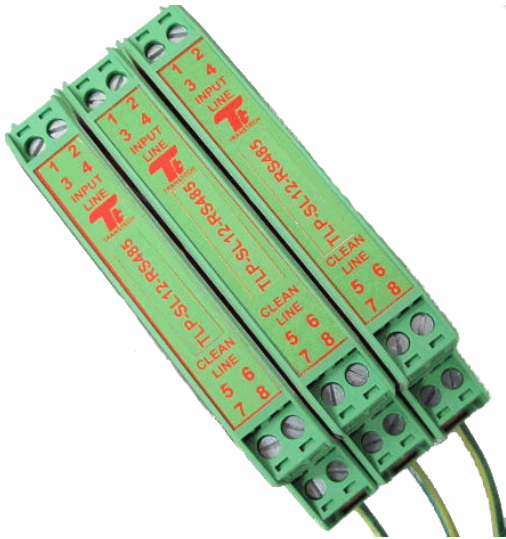
WIRING/CONNECTION NOTE:

The TLP-SL12-xxD series must be connected the correct way around. Terminals 1-2 and 3-4 are always the field input and terminals 5-6 and 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-SL12-05D	5V	DCV	20kA	4kA	<7	10nS
TLP-SL12-12D	12V	DCV	20kA	4kA	<16	10nS
TLP-SL12-15D	15V	DCV	20kA	4kA	<19	10nS
TLP-SL12-18D	18V	DCV	20kA	4kA	<23	10nS
TLP-SL12-24D	24V	DCV	20kA	4kA	<41	10nS
TLP-SL12-48D	48V	DCV	20kA	4kA	<75	10nS

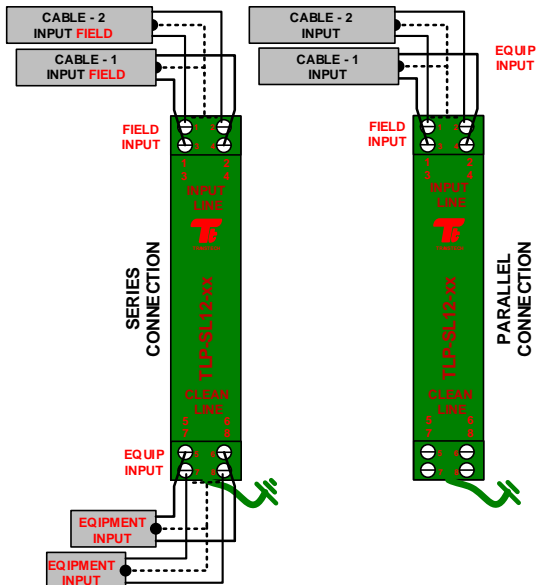
Other Voltages available - also in ACV please contact factory

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

