

Product Specification SheetModel: MLP-TRMLPPlug-in, Slim Surge Protective Device for RTD/Potentiometer SignalLines

DESCRIPTION

The MLP-TR is a high-performance surge protective device (SPD) for RTD or potentiometer signal lines that protects electrical instruments by absorbing lightning-induced surge voltage.

This SPD consists of a plug part and a socket part. The plug part features a deterioration indication function that allows users to check it for deterioration with a special tester. The product is designed such that the signal is not interrupted even if the plug is removed from the socket for replacement. The MLP-TR is offered in a set of two units.

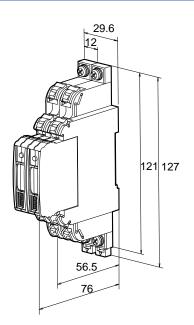
ORDERING INFORMATION

Ordering Code
MLP-TR

SPECIFICATIONS

PERFORMANCE

Measuring Conditions	Performance
_	150V DC
100V/s	L1-L2: 250-560V L-E: 180-280V
150V DC	$10M\Omega$ min.
DC to 1MHz	1.0dB max.
1.2/50µs, 4kV	L1-L2: 1500V max. L-E: 1000V max.
8/20µs (cat. C2)	10 times (2kA)
10/350µs (cat. D1)	2 times (0.5kA)
8/20µs	L1-L2: 5kA L-E: 10kA (5kA×2)
10/350µs	L1-L2: 0.5kA L-E: 1kA (0.5kA×2)
48V DC 260mA	30ms max.
50Hz 0.5A 1s	5 times
	mode 1
	3ns max.
Checked with	Normal: LED ON
special tester	Faulty: LED OFF
JIS C 5381-21 (category: C2/D1)	

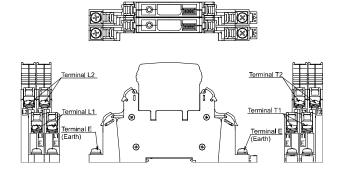


ENVIRONMENTAL

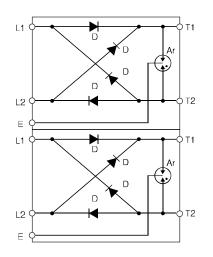
Location of Use	Machine room or equipment enclosure	
Rated Operating Temperature	-40 to 70°C	
Rated Operating Humidity	96% RH max. (non-condensing)	
Storage Temperature	−40 to 70°C	
Storage Humidity	96% RH max. (non-condensing)	
Altitude	2000m max.	
PHYSICAL		
Construction	Plug-and-socket, two-piece construction	
Grounding	Class D [100Ω max.]	
Installation	DIN rail mounting (wall-mountable)	
	M4 screw terminal connection	
Wiring	Terminals L1, L2, T1, T2 Stranded wire: 0.2mm ² (AWG24) to 2mm ² (AWG14) Insulated solderless terminal for M4, e.g., 0.3-4.1, 1.25-4, 2-4	
	Terminal E Stranded wire: 2mm ² (AWG14) min. Insulated solderless terminal for M4, e.g., 2-4	
Screwing Torque	0.75 Nm	
Dimensions	W29.6 × D127 × H76 mm (two units)	
Weight	Approx. 180g (two units)	
MATERIAL		
	1	

C	Plug / Socket	Polyamid

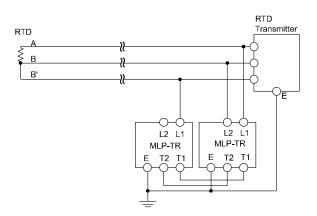
TERMINAL ASSIGNMENTS

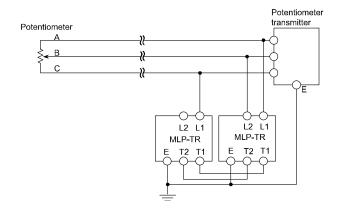


BLOCK DIAGRAM



INSTALLATION EXAMPLE





NOTE: If the distance from the MLP device to the equipment to be protected is over 10 meters, it is recommended that an additional MLP device adjacent to the equipment to be protected should be installed.