POWER WIRE RESISTOR PWR-TR 301 – 304

The PWR-TR is a cemented wire tube resistor. It utilises the full carrying capacity of the resistor material, as the heat that is generated can be dissipated into the environment via the shortest route.

We offer connection and assembly materials as well as the PWR-TRR with additional setting caps for adjusting the resistance values.

Advantages
- High pulse load capacity
- Power rating up to 200 watts
- Compact design

Application Examples
- Charging, discharging, and braking resistor in drive and automation technology
- Grounding resistor
- Protective resistor



Electrical data	
Resistance Range	Freely selectable, see table
Tolerances	±5 % (R > 5 Ω) ±10 % (R = 1 – 5 Ω) Further values on request
Temperature coefficient	±150 ppm / °C
Testing voltage	3000 VAC
Voltage limit	$\sqrt{(P \times R)}$
Stability	1000 h at 25 °C, ΔR ±5 %
Pulse overload	10 x Pn, 5 s

Mechanical data	
Dimensions	See table
Mounting positions	See drawing

Environmental data	
Operating temperature	-50 °C to +200 °C, max. 250 °C
Storage temperature	-25 °C to +40 °C
Protection level acc. to IEC 60529	IP 00

Overview

Type PWR-TR and PWR-TRR*	Nominal load at 25 °C W	Operating voltage V	Resistance range Min. Ω	Resistance range Max. Ω	Diameter mm	Length L1 mm	Length L2 mm	Length L3 mm	Electrical connection	Mechanical connection	Weight g
301	75	1200	0.4	47k	35	100	40	124	B,E	H4, V1	130
302	100	1500	0.6	82k	35	135	40	160	B,E	H4, V1	180
303	150	2000	0.9	110k	35	200	40	226	B,E	H4, V1	270
304	200	2500	1.2	120k	35	275	40	302	B,E	H4, V1	400

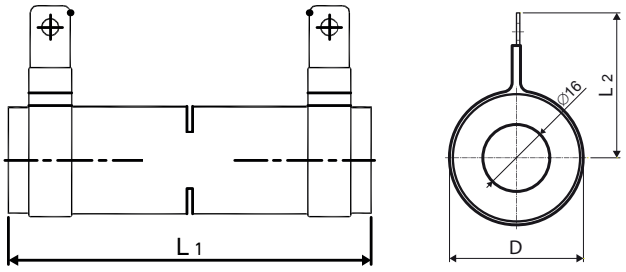
Mechanical tolerances acc. to ISO 2768-m

* TRR: Adjustable resistor with setting cap

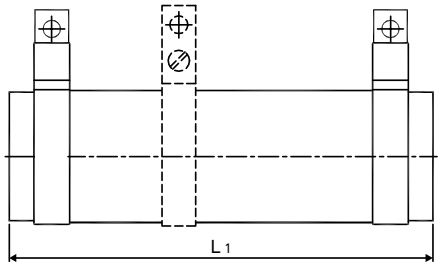
POWER WIRE RESISTOR PWR-TR 301 – 304

Dimensions

PWR-TR

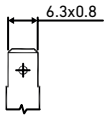


PWR-TRR with setting cap

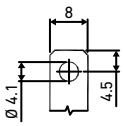


Electrical connection

B

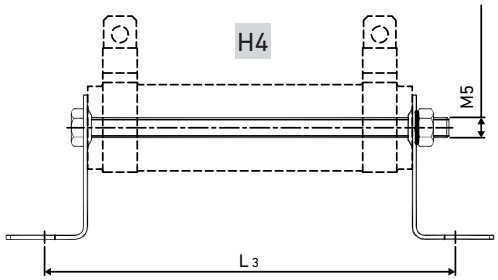


E

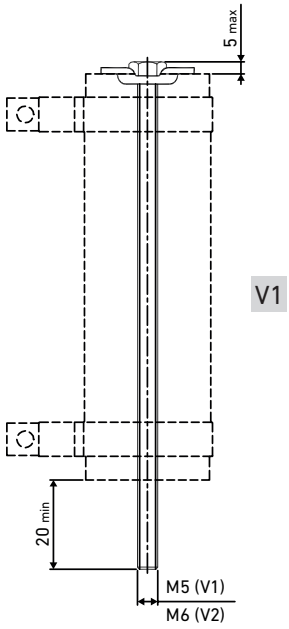


Mechanical connection

H4



V1



Order designation

Series	Type	Resistance value	Tolerance	Electrical connection	Mechanical connection
PWR-TR	301	Please specify	±5 % (J)	B	H4
PWR-TRR	302		±10 % (K)	E	V1
	303		±20 % (M)	X	
	304				

X = Customer specific

Metallux cannot picture the customer's operating and application conditions and the customer's existing environmental influences.
We therefore recommend that you carry out your own investigations into the planned use of the products under the actual operating conditions.

We continuously improve our products and also update our data sheets regularly. In this respect, there may be changes in the specification.
These changes will apply to orders received by us from the time of the update, unless otherwise agreed.

Our products comply with Directive 2011/65/EU (RoHS) including Directive 2015/863/EU and Regulation (EC) No. 1907/2006 (REACH).