POWER WIRE RESISTOR PWR-TR 305 – 308

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 500 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
Insulation resistance	≥10000 MΩ (500 V, 25 °C, 75 % RH)
Testing voltage	4000 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	Operating voltage	Resistance range		Diameter	Length L1	Length L2	Length L3	Electrical connection	Mechanical connection	Weight
	W	V	Min. Ω	Max. Ω	mm	mm	mm	mm			g
305	200	2000	0.7	82k	47	130	50	155	F	H5, V2	300
306	300	2500	1.0	120k	47	182	50	208	F	H5, V2	400
307	400	2750	1.5	160k	47	250	50	277	F	H5, V2	550
308	500	3000	2.0	200k	47	310	50	337	F	H5, V2	700

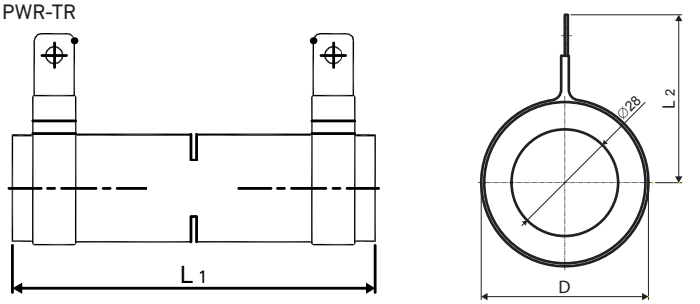
Mechanical tolerances acc. to ISO 2768-m

* TRR: Adjustable resistor with setting cap

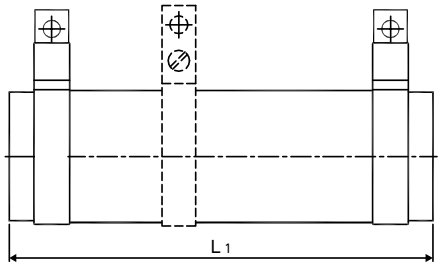
POWER WIRE RESISTOR PWR-TR 305 – 308

Dimensions

PWR-TR

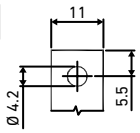


PWR-TRR with setting cap



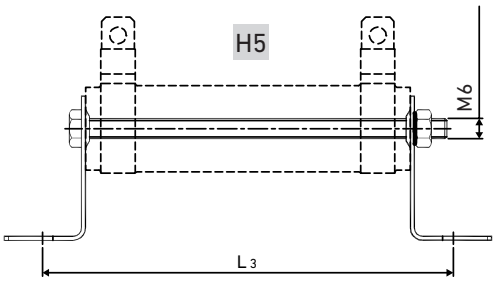
Electrical connection

F

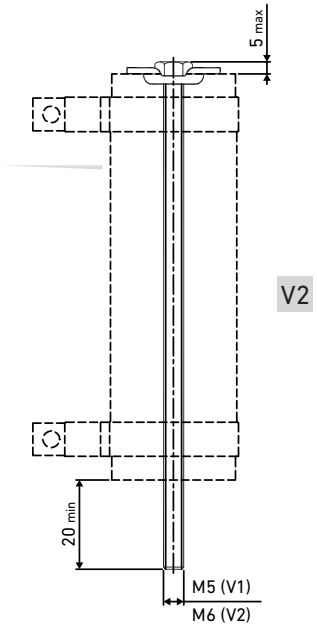


Mechanical connection

H5



V2



Order designation

Series	Type	Resistance value	Tolerance	Electrical connection	Mechanical connection
PWR-TR	305	Please specify	±5 % (J)	F	H5
PWR-TRR	306		±10 % (K)	X	V2
	307		±20 % (M)		
	308				

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).