

Features

- Very long life 100 x 10⁶ operations.
- Outstanding linearity up to 0.075%.
- DIN standard gauging end.
- Double bearing system on shaft.
- Insensitive to shock and vibration.



Specifications

| Type designations | RP-TR10 | RP-TR25 | RP-TR50 | RP-TR75 | RP-TR100 |
|---|---|---------|---------|---------|----------|
| Defined electrical range | 10mm | 25mm | 50mm | 75mm | 100mm |
| Nominal resistance | 1K | 1K | 5K | 5K | 5K |
| Resistance tolerance | ±20% | | | | |
| Independent linearity | ±0.25% | ±0.2% | ±0.15% | ±0.1% | ±0.075% |
| Repeatability | 0.002mm | | | | |
| Recommender operating wiper current | < 1 μA | | | | |
| Max. wiper current in case of malfunction | 10mA | | | | |
| Max. Permissible applied voltage | 42V | | | | |
| Insulation resistance (500VDC, 1bar, 2s) | 10M | | | | |
| Dielectric strength (50Hz, 2s, 1bar, 500VAC) | 100 μA | | | | |
| Total weight | 80g | 120g | 150g | 180g | 200g |
| Weight of the actuating shaft with coupling and wiper block | 18g | 25g | 36g | 48g | 57g |
| Operating force (horizontal) | 5N | | | | |
| Operating frequency max. | 20Hz | 18Hz | 14Hz | 11Hz | 10Hz |
| Max. permitted torque for fixing screws (with washers) | 140Ncm | | | | |
| Temperature range | -30 ~ +100 | | | | |
| Vibration | 5 ~ 2000Hz / A _{max} = 0.75mm / a _{max} = 20g | | | | |
| Shock | 50g / 11ms | | | | |
| Life | > 100 x 10 ⁶ operations | | | | |
| Protection class | IP 40 (DIN400 50 / IEC 529) | | | | |
| Housing | Aluminum, anodized | | | | |
| Fixings | adjustable clamps | | | | |

Dimensions (Unit:mm)

