

POTENTIOMETRE PL320



PL320

| Electrical Data | | |
|--|----------|------------------|
| Nominal resistance | 1/5/10 | kOhm |
| Resistance tolerance | ±20 | % |
| Independent linearity | ±1 | % of meas. range |
| Electrical angle | 340 | ° |
| Repeatability | max. 0.1 | ° |
| Temperature coefficient of the voltage divider | 50 | ppm/°C |
| Recommended wiper current | max. 1 | µA |
| Max. wiper current in case of malfunction | 10 | mA |
| Power rating P | max. 0.5 | W/40°C |
| Min. life (electrical) | 10 Mio. | cycles |

| Mechanical Data | | |
|----------------------------------|--------------|----------------|
| Mechanical range | 360 | ° (continuous) |
| Torque (IP54) | max. 0.7 | Ncm |
| Min. life (mechanical) | 5 Mio. | cycles |
| Max. permitted axial shaft load | 1 | N |
| Max. permitted radial shaft load | 1 | N |
| Operating temperature | -25 ... +85 | °C |
| Storage temperature | -40 ... +105 | °C |
| Protection class | IP54 | |

| Standards | | |
|---|----|------|
| Insulating resistance (500 VDC, 1bar, 2s) | 10 | GOhm |
| Dielectric strength (VAC, 50Hz, 1min, 1bar) | 1 | kV |
| Vibration (Amax = 0.75mm, f = 30 ... 2000 Hz) | 10 | g |
| Shock (half sine pulse, 7 ms) | 50 | g |

Applications

- Valve controls
- Joysticks / Master switches

Features

- Connection by wires
- Small dimensions
- Design flexibility
- 5 Mio. cycles
- Excellent linearity, up to ±0.25%
- Very good resolution better 0,1°

Options

- Resistance tolerance ±10%
- Independent linearity ±0.25%
- Custom electrical angles and switch functions available
- Mechanical end stops
- Protection class IP65
- Custom shaft design
- Custom housing design
- Ball bearings / Sintered bronze bearings
- Customer specific wires

Subject to change
without notice
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COMPAUT

Tel: 04 50 57 07 91
Fax: 04 50 57 21 45
compaut@wanadoo.fr