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| Type designations | PL130 MB | |
|--|--|-----------|
| Mechanical Data | | |
| Dimensions | see drawing | |
| Mounting | nut M8 x 0.75 and serrated washer | |
| Mechanical travel | 316 | ° |
| Permitted shaft loading (axial and radial) static or dynamic force | 1 | N |
| Torque | ≤ 0.5 | Ncm |
| Maximum operational speed | 120 | RPM |
| Weight | 8 | g |
| Electrical Data | | |
| Actual electrical travel | 300 ±3 | ° |
| Available resistance values | 1; 5 | kΩ |
| Resistance tolerance | ±15 | % |
| Repeatability | 0.07 (=0.2°) | % |
| Effective temperature coefficient of the output-to-applied voltage | 5 (typical) | ppm/K |
| Independent linearity | ±2.5 | % |
| Max. permissible applied voltage | 12 | V |
| Recommended operating wiper current | ≤ 1 | μA |
| Max. wiper current in case of malfunction | 5 | mA |
| Insulation resistance (500 VDC, 1 bar, 2 s) | ≥ 10,000 | MΩ |
| Dielectric strength (AC, 50 Hz, 1 min, 1 bar) | 750 | V |
| Environmental Data | | |
| Temperature range | -25...+85 | °C |
| Vibration | 30...2000 | Hz |
| | A _{max} = 0.75 a _{max} = 10 | mm g |
| Life | 10 x 10 ⁶ | movements |
| Shock (DIN IEC 68 T2-27) | 50 | g |
| | 7 | ms |
| Protection class (DIN 40050) | IP 65 | |

Order designations / Abbreviations

3G: connecting solder pin axial
 MB: bushing M8 x 0.75
 axis Ø 3 mm with slot

Included in delivery

1 nut M8 x 0.75
 1 serrated washer Ø 8.15 mm

Recommended accessories

MAP process-control indicators and display. MUP signal conditioner for standardized output signals.

Important

All values given for this series – including linearity, lifetime, micro-linearity, resistance to external disturbances and temperature coefficient in voltage dividing mode – are quoted for the device operating with the wiper voltage driving an operational amplifier working as a voltage follower where virtually no load is applied to the wiper (I_e ≤ 1 μA).

| Order designations | | | | |
|---------------------------|-----|----------|----------|---------|
| Type | | | Art. no. | R in kΩ |
| PL130 | 1K0 | 3G070 MB | 045000 | 1 |
| PL130 | 5K0 | 3G070 MB | 045001 | 5 |

Subject to changes

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