

MECHANICAL SPECIFICATIONS

Surrounding profiles made of aluminium (EN AW-6060 T66), anodised 15/20 micron, optional powder coating in RAL colours.

Prisms :

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| - Bare Aluminium (EN AW-6060 T66). | |
| - Widths and maximum lengths for vertical use: | Widths and maximum lengths for horizontal use: |
| - 100 mm width, max. length approx. 4,740 mm | - Length approx. 4,000 mm |
| - 125 mm width, max. length approx. 6,000 mm | - Length approx. 5,000 mm |
| - 160 mm width, max. length approx. 7,000 mm | - Length approx. 6,000 mm
(Longer lengths with dividers) |

Fixing materials:

- Stainless steel A2, optional A4
- All fixing materials are locked

Bearings and prism lock:

- Prisms: mechanical side, 2 stainless steel ball bearings, double sealed and lubricated for life with Molykote 33 medium, temperature range from -73C to +180C
- Top bearing of prisms self lubricating PBT/MOS 2
- Prism locking by spring pressure 30Nm
- Main shaft ball bearings stainless steel and double sealed

System protection:

- Mechanical with overload clutch
- Electronically with runtime and thermal protection

Transmission motor central shaft:

- Hardened steel Teflon-coated bevel gears

Spare parts:

- Parts can be replaced on site.

ELECTRICAL/ELECTRONIC SPECIFICATIONS

Electrical/Electronic parts:

- All connections are made by means of connectors, plugs IP 65

Operating voltage : 24Vdc/110Vac 60Hz/230Vac 50Hz

Power consumption - Motor: 230 Vac 23 W / 110Vac 29 W / 24Vdc 10-25 W
- Controller : 230 Vac 8 W / 110Vac 8.3 W / 24Vdc 2 W

- Provided with EMC protective cover with a minimum insulation value of 1.5 KV~
- EN 61000-6-2/EN61000-6-3/EN 61000-6-4 EN 12899-1 § 5.3 table 8-12
- PVMS EN 12966-1:2005 annex ZA
- LED-indicators for side and status and DIP-switches for address settings
- Digital Sensors
- Control system automatically selects the shortest path to the selected side
- Standard controller supplied as built-in unit, DIN-rail mounted, optional waterproof casing

SOLAR POWERED

Example with standard 24 Vdc controller:

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|--|----------------------|
| - 10 movements a day for rotapanel size 3x2 m | = 20 mAh/day approx. |
| - RP-2000 controller | = 2 Ah/day approx. |
| - RP-2000controller + optional powersavingunit | = 0.5 Ah/day approx. |
| - for calculating 1 movement | = 2 mAh/turn approx. |

Actual values may differ due to local conditions. Further details on request

REMOTE CONTROL AND ACKNOWLEDGEMENT BY MEANS OF:

Standard: RS-485 and manual control: Serial control RS-485 by available protocol or user-definable protocol (optional)

- | | |
|---|---|
| - Data bus | : 2-wire multi-drop positive/negative |
| - Insulation resistance/galvanic separation | : 3 KVdc at 100 M Ω min. (EN60950 and EN41003) |
| - Maximum cable length | : approx.1200 mtr. (longer with repeaters) |

Optional:

Parallel wide-range control with position , error, and lighting control (lighting controlled by RS-485).

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|-------------------|---|
| - Isolated inputs | : 12-230 Vac/Vdc (auto sensing) |
| - Control | : puls duration min. 500 ms or latching contact |
| - Relay outputs | : maximum 400V, 3.5A |

Profibus-DP:

- Certificate No. Z01048 GSD-file: RP092B.gsd for information www.profibus.com

Gsm ans internet monitoring

- Control and acknowledgement.

All test reports available on request.

RotaPanel reserves the right to make technical modifications.