## Parallel gripper HGPD-16-A-G2 Part number: 1132938

## **Data sheet**

| Feature                                            | Value                                                                                                                                                 |
|----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Size                                               | 16                                                                                                                                                    |
| Stroke per gripper jaw                             | 3 mm                                                                                                                                                  |
| Max. interchangeability                            | 0.2 mm                                                                                                                                                |
| Max. gripper jaw angular play ax, ay               | 0.1 deg                                                                                                                                               |
| Max. gripper jaw backlash Sz                       | 0.02 mm                                                                                                                                               |
| Rotational symmetry                                | 0.2 mm                                                                                                                                                |
| Pneumatic gripper repetition accuracy              | 0.03 mm                                                                                                                                               |
| Number of gripper jaws                             | 2                                                                                                                                                     |
| Actuator system                                    | Pneumatic                                                                                                                                             |
| Mounting position                                  | Any                                                                                                                                                   |
| Mode of operation                                  | Double-acting                                                                                                                                         |
| Gripper function                                   | Parallel                                                                                                                                              |
| Gripping force backup                              | During closing                                                                                                                                        |
| Structural design                                  | Inclined plane<br>Positively driven motion sequence                                                                                                   |
| Position sensing                                   | For proximity sensor                                                                                                                                  |
| Operating pressure                                 | 4 bar8 bar                                                                                                                                            |
| Operating pressure for sealing air                 | 0 bar0.5 bar                                                                                                                                          |
| Max. operating frequency of pneumatic gripper      | 3 Hz                                                                                                                                                  |
| Min. opening time at 6 bar                         | 30 ms                                                                                                                                                 |
| Min. closing time at 6 bar                         | 15 ms                                                                                                                                                 |
| Max. mass per external gripper finger              | 25 g                                                                                                                                                  |
| Operating medium                                   | Compressed air as per ISO 8573-1:2010 [7:4:4]                                                                                                         |
| Information on operating and pilot media           | Operation with oil lubrication possible (required for further use)                                                                                    |
| Corrosion resistance class (CRC)                   | 2 - Moderate corrosion stress                                                                                                                         |
| LABS (PWIS) conformity                             | VDMA24364-B2-L                                                                                                                                        |
| Suitability for the production of Li-ion batteries | Metals with more than 5% by mass of copper are excluded from use.<br>Exception are printed circuit boards, cables, electrical connectors and<br>coils |
| Degree of protection                               | IP65                                                                                                                                                  |
| Ambient temperature                                | 5 °C60 °C                                                                                                                                             |
| Mass moment of inertia                             | 0.27 kgcm <sup>2</sup>                                                                                                                                |

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| Feature                                      | Value                                                                                                                                                                      |
|----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Maximum torque on gripper jaw, Mx static     | 8 Nm                                                                                                                                                                       |
| Maximum torque on gripper jaw, My static     | 4 Nm                                                                                                                                                                       |
| Maximum torque on gripper jaw, Mz static     | 3 Nm                                                                                                                                                                       |
| Relubrication interval for guidance elements | 5 MioCyc                                                                                                                                                                   |
| Product weight                               | 117 g                                                                                                                                                                      |
| Type of mounting                             | With internal thread and centering sleeve<br>Via through-hole and centering sleeve<br>With through-hole and dowel pin<br>With internal thread and dowel pin<br>Optionally: |
| Sealing air pneumatic connection             | M3                                                                                                                                                                         |
| Pneumatic connection                         | M5                                                                                                                                                                         |
| Note on materials                            | RoHS-compliant                                                                                                                                                             |
| Cover cap material                           | High-alloy stainless steel                                                                                                                                                 |
| Housing material                             | Aluminum, anodized                                                                                                                                                         |
| Gripper jaw material                         | Hardened steel                                                                                                                                                             |