

Parallel gripper EHPS-20-A-LK

Part number: 8103810

FESTO



 [General operating condition](#)

Data sheet

| Feature | Value |
|---|---|
| Size | 20 |
| Stroke per gripper jaw | 13 mm |
| Max. interchangeability | ≤0.2 mm |
| Max. gripper jaw angular play ax, ay | 0.3 deg |
| Max. gripper jaw backlash Sz | 0.05 mm |
| Rotational symmetry | ≤0.2 mm |
| Pneumatic gripper repetition accuracy | ≤0.01 mm |
| Number of gripper jaws | 2 |
| Actuator system | Electrical |
| Mounting position | Any |
| Gripper function | Parallel |
| Structural design | Worm gear T-shape Gear rack/pinion Electric gripper |
| Conforms to standard | IEC 61010-1 |
| Guide | Sliding guide |
| Position sensing | With Hall sensor With integrated linear potentiometer Via IO-Link interface |
| Symbol | 00992258 |
| Motor type | DC servo motor |
| Ready status indication | LED |
| Max. cycle rate | 0.7 Hz |
| Max. mass per external gripper finger | 150 g |
| Max. current consumption | 2000 mA |
| Nominal operating voltage DC | 24 V |
| Permissible voltage fluctuations | +/- 10 % |
| Certification | RCM compliance mark |
| KC characters | KC EMC |
| CE marking (see declaration of conformity) | As per EU EMC directive As per EU RoHS directive |
| UKCA marking (see declaration of conformity) | To UK RoHS instructions |
| Explosion protection certification outside the EU | EPL Db (GB) EPL Gb (GB) |
| Explosion prevention and protection | Zone 1 (UKEX) Zone 21 (UKEX) |
| Corrosion resistance class (CRC) | 1 - Low corrosion stress |

| Feature | Value |
|--|--|
| 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. This excludes printed circuit boards, cables, electrical connectors and coils. |
| Noise level | ≤70 dB(A) |
| Degree of protection | IP40 |
| Ambient temperature | 5 °C ... 60 °C |
| Total gripping force | 218 N |
| Mass moment of inertia | 2.02 kgcm ² |
| Maximum force on gripper jaw Fz, static | 325 N |
| Maximum torque on gripper jaw, Mx static | 13 Nm |
| Maximum torque on gripper jaw, My static | 8 Nm |
| Maximum torque on gripper jaw, Mz static | 13 Nm |
| Relubrication interval for guidance elements | 2 MioCyc |
| Product weight | 532 g |
| Protocol | IO-Link® |
| IO-Link®, protocol version | Device V 1.1 |
| IO-Link®, communication mode | COM3 (230.4 kBd) |
| IO-Link®, SIO mode support | No |
| IO-Link®, port class | Device B |
| IO-Link®, number of ports | Device 1 |
| IO-Link®, process data width OUT | 8 bytes |
| IO-Link®, process data content OUT | 16 bit (ControlWord) 16 bit (GrippingPosition) 8 bit (GrippingForce) 8 bit (GrippingMode) 8 bit (GrippingTolerance) 8 bit (WorkpieceNo) |
| IO-Link®, process data width IN | 6 bytes |
| IO-Link®, process data content IN | 16 bit (ActualPosition) 16 bit (ErrorNumber) 16 bit (StatusWord) |
| IO-Link®, minimum cycle time | 5 ms |
| IO-Link®, data memory required | <500 byte |
| IO-Link®, device ID | 0x000032 |
| Electrical connection | 5-pin Cable with plug M12x1 |
| Type of mounting | Optionally: With internal thread and centering sleeve Via through-hole and centering sleeve |
| Note on materials | RoHS-compliant |
| Housing material | Wrought aluminum alloy, anodized |
| Gripper jaw material | High-alloy stainless steel |