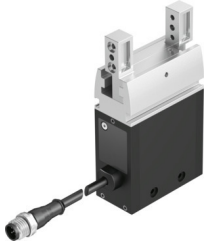


Parallel gripper EHPS-20-A-LK

Part number: 8103810

FESTO



 [General operating condition](#)

Data sheet

| Feature | Value |
|---|---|
| Size | 20 |
| Stroke per gripper jaws | 13 mm |
| Max. replacement accuracy | ≤0.2 mm |
| Max. angular gripper jaw backlash ax, ay | 0.3 deg |
| Max. gripper jaw backlash Sz | 0.05 mm |
| Rotationally symmetrical | ≤0.2 mm |
| Repetition accuracy, gripper | ≤0.01 mm |
| Number of gripper jaws | 2 |
| Drive system | Electrical |
| Mounting position | optional |
| Gripper function | Parallel |
| Design | Worm gear unit T-shape Rack and pinion Electric gripper |
| Conforms to standard | IEC 61010-1 |
| Guide | Plain-bearing guide |
| Position detection | With Hall sensor With integrated displacement encoder Via IO-Link interface |
| Symbol | 00992258 |
| Type of motor | DC servo motor |
| Ready status indication | LED |
| Max. cycle frequency | 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 % |
| Approval | RCM trademark |
| KC mark | KC-EMV |
| CE mark (see declaration of conformity) | To EU EMC Directive In accordance with 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 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. Exceptions are printed circuit boards, cables, electrical connectors and coils. |
| Sound pressure 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 |
| Max. force on gripper jaw Fz static | 325 N |
| Max. torque at gripper Mx static | 13 Nm |
| Max. torque at gripper My static | 8 Nm |
| Max. torque at gripper Mz static | 13 Nm |
| Lubrication interval for guide components | 2 MioCyc |
| Product weight | 532 g |
| Protocol | IO-Link® |
| IO-Link, Protocol version | Device V 1.1 |
| IO-Link, communication mode | COM3 (230.4 kBaud) |
| IO-Link, SIO-Mode support | No |
| IO-Link, Port class | Device B |
| IO-Link, Number of ports | Device 1 |
| IO-Link, Process data length 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 length IN | 6 bytes |
| IO-Link, Process data content IN | 16-bit (ActualPosition) 16 bit (ErrorNumber) 16 bit (StatusWord) |
| IO-Link, Min. cycle time | 5 ms |
| IO-Link, Data storage required | <500 Byte |
| IO-Link, Device ID | 0x000032 |
| Electrical connection | 5-pin Cable with plug M12x1 |
| Type of mounting | Either: Via female thread and centring sleeve Via through-hole and centring sleeve |
| Note on materials | RoHS-compliant |
| Material housing | Anodised wrought aluminium alloy |
| Material gripper jaws | High-alloy stainless steel |