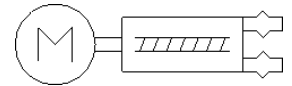
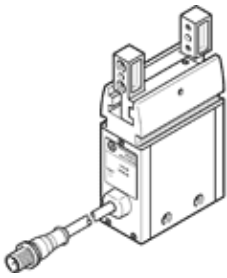


Parallel gripper EHPS-20-A-LK

Part number: 8103810

FESTO



Data sheet

Feature	Value
Size	20
Stroke per gripper jaw	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 fingers	2
Drive system	electrical
Assembly position	Any
Gripper function	Parallel
Design structure	Worm gear unit T-shaped 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
Motor type	DC servo motor
Ready status display	LED
Max. cycle frequency	0.7 Hz
Max. mass per external gripper finger	150 g
Max. current consumption	2 A
Nominal operating voltage DC	24 V
Permissible voltage fluctuation	+/- 10 %
Authorization	RCM Mark
KC mark	KC-EMV
CE symbol (see declaration of conformity)	according to EU-EMV guideline in accordance with EU RoHS directive
UKCA marking (see declaration of conformity)	To UK instructions for EMC To UK RoHS instructions
Explosion protection certification outside the EU	EPL Db (GB) EPL Gb (GB)
Corrosion resistance classification CRC	1 - Low corrosion stress
PWIS conformity	VDMA24364-B2-L
RSBP classification to CD-0033	F5
Sound pressure level	≤ 70 dB(A)
Protection class	IP40
Ambient temperature	5 ... 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

Feature	Value
Max. torque at gripper Mz static	13 Nm
Lubrication interval for guide components	2 Mio SP
Product weight	532 g
Protocol	IO-Link
IO-Link, protocol	Device V 1.1
IO-Link, communication mode	COM3 (230.4 kbd)
IO-Link, SIO mode support	No
IO-Link, port type	Device B
IO-Link, number of ports	Device 1
IO-Link, process data width OUT	8 Byte
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 Byte
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
Mounting type	Internal thread and centering sleeve With through-hole and centering sleeve Optional
Materials note	Conforms to RoHS
Material housing	Anodised wrought aluminium alloy
Material gripper jaws	High alloy steel, non-corrosive