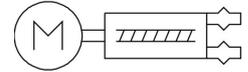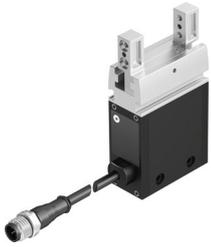# Parallel gripper
EHPS-16-A-LK

Part number: 8103809

FESTO

Data sheet

Feature	Value
Size	16
Stroke per gripper jaw	10 mm
Max. interchangeability	≤0.2 mm
Max. gripper jaw angular play ax, ay	0.4 deg
Max. gripper jaw backlash Sz	0.05 mm
Rotational symmetry	≤0.2 mm
Pneumatic gripper repetition accuracy	≤0.03 mm
Type code	EHPS
Number of gripper jaws	2
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	1.1 Hz
Max. current consumption	1000 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
Corrosion resistance class (CRC)	1 - Low corrosion stress
Noise level	≤70 dB(A)
Degree of protection	IP40
Ambient temperature	5 °C ... 60 °C
Mass moment of inertia	0.78 kgcm²
Maximum force on gripper jaw Fz, static	200 N

Feature	Value
Maximum torque on gripper jaw, Mx static	7 Nm
Maximum torque on gripper jaw, My static	4.4 Nm
Maximum torque on gripper jaw, Mz static	7 Nm
Relubrication interval for guidance elements	2 MioCyc
Max. mass per external gripper finger	100 g
Product weight	296 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	0x000031
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