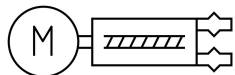


Parallel gripper EHPS-16-A-RA1

Part number: 8119111

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
Number of gripper jaws	2
Actuator system	Electrical
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	For proximity sensor
Motor type	DC servo motor
Control elements	Latching switch
Ready status indication	LED
Max. cycle rate	1.1 Hz
Max. mass per external gripper finger	100 g
Max. current consumption	1 A
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
Explosion protection certification outside the EU	EPL Db (GB) EPL Gb (GB)
Explosion prevention and protection	Zone 1 (UKEX) Zone 21 (UKEX)

Feature	Value
Corrosion resistance class (CRC)	1 - Low corrosion stress
LABS (PWIS) conformity	VDMA24364-B2-L
Noise level	70 dB(A)
Degree of protection	IP40
Ambient temperature	5 °C...60 °C
Total gripping force	154 N
Mass moment of inertia	0.81 kgcm ²
Maximum force on gripper jaw Fz, static	200 N
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
Product weight	400 g
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	Aluminum, anodized
Gripper jaw material	High-alloy stainless steel
Robot connection	Universal robots UR3/5/10 (PolyScope CB 3.6.0 and later) Universal robots UR3e/5e/10e (PolyScope software version 5.0.0 and later)
Scope of delivery	1x adapter plate 1x Velcro® roll 1x position transmitter 1x USB memory stick with URCap 2x connecting cable