



Data sheet

Feature	Value
Size	28
Complete stroke	30 mm
Stroke per gripper jaw	15 mm
Max. gripper jaw backlash Sz	0.35 mm
Pneumatic gripper repetition accuracy	0.04 mm
Number of gripper jaws	2
Actuator system	Electrical
Mounting position	Any
Controller operating mode	Interpolating mode via fieldbus
Gripper function	Parallel
Structural design	Toothed belt Electric gripper with ball screw
Guide	Roller guide
Position sensing	Motor encoder
Configuration support	ESI file
Variants	Metals with copper, zinc or nickel by mass as main constituent are excluded from use. Exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connectors and coils.
Rotor position sensor	Absolute encoder, single-turn
Rotor position sensor measuring principle	Magnetic
Ready status indication	LED
Positioning speed per gripper finger	40 mm/s
Positioning acceleration per gripper finger	1 m/s²
Gripping speed per gripper finger	3 mm/s
No. of MAC addresses	4
Max. current consumption	3000 mA
Max. load current consumption	2 A
Logic max. current consumption	1 A
Nominal operating voltage DC	24 V
Nominal voltage, logic supply DC	24 V
Nominal voltage, load supply DC	24 V

Load supply permissible range	Feature	Value
Permissible range of logic voltage KC characters KC EMC KC EMC KC Emarking (see declaration of conformity) As per EU EMC directive LUKCA marking (see declaration of conformity) To UK instructions for EMC To UK RoH5 instructions Shock resistance Shock test with severity level 2 as per FN 942017-5 and EN 60068-2-27 Carosion resistance class (CRC) O - No corrosion stress LABS (PWIS) conformity VDMA24364 2 one III Product corresponds to Festo's internal product definition for use in better y production. Attentive that is with more than 1%, by mass of copper, rinc or rickel are excluded from use. The exceptions are nickel in steel, chemically inches plated surfaces, circuit boards, cables, electrical plug connectors and colls Ulcarnoom class Ulcar	Motor nominal current	0.9 A
KC characters KC Emarking (see declaration of conformity) As per EU EMC directive To UK Instructions for EMC To UK RoHS instructions Shock resistance Shock test with severity level 2 as per FN 942017-5 and EN 60068-2-27 Corrosion resistance class (CRC) O - No corrosion stress Shock test with severity level 2 as per FN 942017-5 and EN 60068-2-27 Corrosion resistance class (CRC) O - No corrosion stress VDMA24364 zone III Product corresponds to Festo's internal product definition for use in battery production Metals with more than 1% by mass of cooper, rinc exceptions are nickel in seed, chemically nickel-plated surfaces, circuit boards, cables, electrical plus connectors and coils Cleanroom class Cleanroom class Class 6 according to ISO 14644-1 Transport application test with severity level 2 as per FN 942017-4 and EN 60068-2-6 Relative air humidity O -95 % Non-condensing No	Load supply permissible range	± 10 %
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Suitability for the production of Li-ion batteries battery production:Metals with more than 1% by most of copper, zind or nickel are excluded from use. The exceptions are nickel in steel, chemically nickel-plated surfaces, circuit boards, cables, electrical plug connectors and coils connected and connectors and connections. Connection connectio	Corrosion resistance class (CRC)	0 - No corrosion stress
battery production:Metals with more than 1 % by mass of copper, zinc or nickel are excluded from use. The exceptions are nickel in steel, chemically nickel-plated surfaces, circuit boards, cables, electrical plug connections and coils Clean Food Relative air humidity Clean Food Relative air humidity Clean Food Relative air humidity Co 95 % Non-condensing Noise level Go 80 (A) Degree of protection IP40 Ambient temperature O °C50 °C Total gripping force 320 N Scripping force per gripper jaw 160 N Maximum force on gripper jaw, Mx static Maximum force on gripper jaw, Fx, static Maximum torque on gripper jaw, Mx static Maximum torque on gripper jaw, Mx static Maximum torque on gripper jaw, Mx static Also N Maximum torque on gripper jaw, Mx static Also N Relation interval for guidance elements 1 MioCyc Product weight Communication profile CiA402 Exception interface, connection type Socket Fieldbus interface, connection technology Fieldbus interface, connection technology Fieldbus interface, connection technology Fieldbus interface, number of poles/wires 4 Fieldbus interface, number of poles/wires Author of the maximum ter	LABS (PWIS) conformity	VDMA24364 zone III
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Maximum force on gripper jaw Fz, static Maximum torque on gripper jaw, Mx static Maximum torque on gripper jaw, My static Maximum torque on gripper jaw,	Gripping force per gripper jaw	160 N
Maximum torque on gripper jaw, Mx static Maximum torque on gripper jaw, My static Maximum torque on gripper jaw, Mz static Maximum torque on gripper jaw, My static law, My statical on the Maximum in the Maxi	Mass moment of inertia	30 kgcm²
Maximum torque on gripper jaw, My static Maximum torque on gripper jaw, Mz static 6.5 Nm Rated load 1 kg Nominal torque 8.6 Nm Nominal torque 9.115 Nm Relubrication interval for guidance elements 1 MioCyc Product weight 1400 g CiA402 EoE (Ethernet over EtherCAT) Foc (File over EtherCAT) Foc (File over EtherCAT) Fieldbus interface, connection type Socket Fieldbus interface, number of poles/wires 4 Fieldbus interface, protocol EtherCAT Electrical connection 2x M12 EtherCAT Type of mounting With internal thread and centering sleeve Note on materials Housing material Aluminum, anodized	Maximum force on gripper jaw Fz, static	680 N
Maximum torque on gripper jaw, Mz static 6.5 Nm Rated load 1 kg Nominal torque 0.115 Nm Relubrication interval for guidance elements 1 MioCyc Product weight 1400 g Communication profile CiA402 EoE (Ethernet over EtherCAT) Foic (File over EtherCAT) Foic (File over EtherCAT) Fieldbus interface, connection type Socket Fieldbus interface, number of poles/wires 4 Fieldbus interface, protocol EtherCAT Electrical connection 2 x M12 Fieldbus coupling EtherCAT Type of mounting With internal thread and centering sleeve Note on materials Housing material Aluminum, anodized	Maximum torque on gripper jaw, Mx static	6.5 Nm
Rated load Nominal torque Relubrication interval for guidance elements 1 MioCyc Product weight Communication profile CiA402 Eoe (Ethernet over EtherCAT) Foe (File over EtherCAT) Foe (File over EtherCAT) Fieldbus interface, connection type Socket Fieldbus interface, number of poles/wires 4 Fieldbus interface, protocol EtherCAT Electrical connection 2x M12 Fieldbus coupling Type of mounting With internal thread and centering sleeve Note on materials Housing material Aluminum, anodized	Maximum torque on gripper jaw, My static	14.5 Nm
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Relubrication interval for guidance elements 1 MioCyc 1400 g CiA402 EoE (Ethernet over EtherCAT) FoE (File over EtherC	Rated load	1 kg
Product weight Communication profile CiA402 EoE (Ethernet over EtherCAT) FoE (File over EtherCAT) FoE (File over EtherCAT) FoE (File over EtherCAT) Fieldbus interface, connection type Socket Fieldbus interface, connection technology M12x1, D-coded as per EN 61076-2-101 Fieldbus interface, number of poles/wires 4 Fieldbus interface, protocol EtherCAT Electrical connection 2x M12 Fieldbus coupling EtherCAT Type of mounting With internal thread and centering sleeve Note on materials ROHS-compliant Housing material Aluminum, anodized	Nominal torque	0.115 Nm
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Fieldbus interface, protocol Electrical connection 2x M12 Fieldbus coupling EtherCAT Type of mounting With internal thread and centering sleeve Note on materials RoHS-compliant Housing material Aluminum, anodized	Fieldbus interface, connection technology	M12x1, D-coded as per EN 61076-2-101
Electrical connection 2x M12 Fieldbus coupling EtherCAT Type of mounting With internal thread and centering sleeve Note on materials RoHS-compliant Housing material Aluminum, anodized	Fieldbus interface, number of poles/wires	4
Fieldbus coupling EtherCAT Type of mounting With internal thread and centering sleeve Note on materials RoHS-compliant Housing material Aluminum, anodized	Fieldbus interface, protocol	EtherCAT
Type of mounting With internal thread and centering sleeve Note on materials RoHS-compliant Housing material Aluminum, anodized	Electrical connection	2x M12
Note on materials RoHS-compliant Housing material Aluminum, anodized	Fieldbus coupling	EtherCAT
Housing material Aluminum, anodized	Type of mounting	With internal thread and centering sleeve
-	Note on materials	RoHS-compliant
Gripper jaw material Steel	Housing material	Aluminum, anodized
	Gripper jaw material	Steel