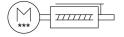
Electric cylinder unit EPCS-BS-32-150-8P-A-ST-M-H1-PLK-AA

FESTO

Part number: 8118273





Data sheet

Feature	Value
Size	32
Stroke	150 mm
Stroke reserve	0 mm
Piston rod thread	M8
Reversing backlash	100 μm
Screw diameter	8 mm
Spindle pitch	8 mm/U
Max. angle of rotation of the piston rod +/-	1 deg
Mounting position	Any
Piston rod end	External thread
Motor type	Stepper motor
Structural design	Electric actuator with ball screw drive With integrated drive
Spindle type	Ball screw drive
Symbol	00997294
Protection against torsion/guide	With plain-bearing guide
Homing	Fixed stop block positive Fixed stop block, negative Reference switch
Rotor position sensor	Absolute encoder, single-turn
Rotor position sensor measuring principle	Magnetic
Additional functions	User interface Integrated end-position sensing
Display	LED
Ready status indication	LED
Max. acceleration	5 m/s ²
Max. speed	0.21 m/s
Repetition accuracy	±0.02 mm
Characteristics of digital logic outputs	Configurable Not galvanically isolated
Duty cycle	100%
Insulation protection class	В
Max. current of digital logic outputs	100 mA
Max. current consumption	3000 mA
DC nominal voltage	24 V
Nominal current	3 A

User interface	Feature	Value
Rotor position sensor resolution 16 bit Permissible voltage fluctuations 4-7-15 % Power supply, per Connection Pug Power supply, per Connection pattern 00995999 MIZ21, I coded as per EN 61076 2-111 Power supply, connection pattern 00995999 AR 1221, I coded as per EN 61076 2-111 Power supply, connection pattern 00995999 Certification RCM compliance mark KC brown supply, connection pattern 00995999 Certification RCM compliance mark KC brown supply, connection pattern 00995999 Certification RCM compliance mark KC brown supply (connection pattern 0099599) CERTIFICATION As per EU EMC directive AS per EU Rotification (I known supply as a per EN 942017-5 and EN 60068-2-6 (I known supply as a per EN 942017-5 and EN 60068-2-6 (I known supply as a per EN 942017-5 and EN 60068-2-6 (I known supply as a per EN 942017-5 and EN 60068-2-7 (I kn	Parameterization interface	
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Storage temperature - 20 °C 60 °	Corrosion resistance class (CRC)	0 - No corrosion stress
Relative air humidity Degree of protection Ambient temperature O °C50 °C Note on ambient temperature Above an ambient temperature of 30°C, the power must be reduced by 2% per K. Max. torque Mx Max. torque My 1.5 Nm Max. torque Mz 1.5 Nm Max. torque Mz 1.5 Nm Max. rodial force on actuator shaft 75 N Max. redial force on actuator shaft 78 N Max. for payload, horizontal Guide value for payload, vertical 9 kg Moving mass at 0 mm stroke Additional moving mass per 10 mm stroke 818 g Additional moving mass per 10 mm stroke 818 g Additional weight with 0 mm stroke 818 g Additional weight per 10 mm stroke 1178 g Basic weight with 0 mm stroke 24 g Number of digital logic outputs 24 V DC 2 Logic input specification Based on IEC 61131-2, type 1 Work range of logic input Configurable Not galvanically isolated IO-Link®, proteool version Device V 1.1 IO-Link®, port class IO-Link®, port class IO-Link®, porcess data width OUT 2 Byte IO-Link®, process data content OUT I bit (move out) I bit (quit error)	LABS (PWIS) conformity	VDMA24364 zone III
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Max. radial force on actuator shaft Max. feed force Fx 150 N Guide value for payload, horizontal 24 kg Guide value for payload, vertical Moving mass at 0 mm stroke Additional moving mass per 10 mm stroke 1178 g Basic weight with 0 mm stroke 818 g Additional weight per 10 mm stroke 824 g Number of digital logic outputs 24 V DC 2 Number of digital logic inputs Logic input specification Based on IEC 61131-2, type 1 Work range of logic input Characteristics of logic input Characteristics of logic input OLink®, SIO mode support Ves IO-Link®, protocol version Device V 1.1 IO-Link®, protocass data width OUT 2 Byte IO-Link®, process data content OUT Libit (move in) Libit (move out) Libit (move in) Libit (move out) Libit (move in) Libit (move out) Libit (move out) Libit (move in) Libit (move out) Libit (move in)	Max. torque My	1.5 Nm
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Guide value for payload, vertical Moving mass at 0 mm stroke Additional moving mass per 10 mm stroke Product weight Basic weight with 0 mm stroke Additional weight per 10 mm stroke 818 g Additional weight per 10 mm stroke 24 g Number of digital logic outputs 24 V DC 2 Number of digital logic inputs 2 Logic input specification Based on IEC 61131-2, type 1 Work range of logic input Configurable Not galvanically isolated IO-Link®, SIO mode support Yes IO-Link®, protocol version Device V 1.1 IO-Link®, port class A IO-Link®, port class A IO-Link®, porcess data width OUT 2 Byte IO-Link®, process data content OUT 1 bit (move in) 1 bit (move out) 1 bit (quit error)	Max. feed force Fx	150 N
Moving mass at 0 mm stroke Additional moving mass per 10 mm stroke 3.3 g Product weight 1178 g Basic weight with 0 mm stroke 818 g Additional weight per 10 mm stroke 24 g Number of digital logic outputs 24 V DC 2 Number of digital logic inputs 2 Logic input specification Based on IEC 61131-2, type 1 Work range of logic input Configurable Not galvanically isolated Not galvanically isolated Not Link®, SIO mode support Yes 10-Link®, protocol version Device V 1.1 COM3 (230.4 kBd) 10-Link®, process data width OUT 2 Byte 10-Link®, process data content OUT 1 bit (move ui) 1 bit (move out) 1 bit (move out) 1 bit (quit error)	Guide value for payload, horizontal	24 kg
Additional moving mass per 10 mm stroke Product weight 1178 g Basic weight with 0 mm stroke 818 g Additional weight per 10 mm stroke 24 g Number of digital logic outputs 24 V DC 2 Number of digital logic inputs 2 Logic input specification Based on IEC 61131-2, type 1 Work range of logic input Characteristics of logic input Characteristics of logic input Work potocol version Device V 1.1 IO-Link®, protocol version Device V 1.1 IO-Link®, port class A IO-Link®, process data width OUT 2 Byte IO-Link®, process data content OUT 1 bit (move in) 1 bit (move out) 1 bit (move out) 1 bit (quit error)	Guide value for payload, vertical	9 kg
Product weight Basic weight with 0 mm stroke 818 g Additional weight per 10 mm stroke 24 g Number of digital logic outputs 24 V DC 2 Number of digital logic inputs 2 Logic input specification Based on IEC 61131-2, type 1 Work range of logic input Characteristics of logic input Characteristics of logic input Ves IO-Link®, SIO mode support Ves IO-Link®, protocol version Device V 1.1 IO-Link®, port class A IO-Link®, process data width OUT 2 Byte IO-Link®, process data content OUT 1 bit (move in) 1 bit (move out) 1 bit (move out) 1 bit (move out) 1 bit (move out) 1 bit (quit error)	Moving mass at 0 mm stroke	98 g
Basic weight with 0 mm stroke Additional weight per 10 mm stroke Number of digital logic outputs 24 V DC Number of digital logic inputs 2 Logic input specification Based on IEC 61131-2, type 1 Work range of logic input Configurable Not galvanically isolated IO-Link®, SIO mode support Yes IO-Link®, protocol version Device V 1.1 IO-Link®, communication mode COM3 (230.4 kBd) IO-Link®, number of ports 1 IO-Link®, process data width OUT 2 Byte IO-Link®, process data content OUT 1 bit (move in) 1 bit (move out) 1 bit (quit error)	Additional moving mass per 10 mm stroke	3.3 g
Additional weight per 10 mm stroke Number of digital logic outputs 24 V DC Number of digital logic inputs Logic input specification Based on IEC 61131-2, type 1 Work range of logic input Configurable Not galvanically isolated IO-Link®, SIO mode support Yes IO-Link®, protocol version Device V 1.1 IO-Link®, port class A IO-Link®, number of ports 1 IO-Link®, process data width OUT 2 Byte IO-Link®, process data content OUT 1 bit (move out) 1 bit (move out) 1 bit (quit error)	Product weight	1178 g
Number of digital logic outputs 24 V DC Number of digital logic inputs Logic input specification Based on IEC 61131-2, type 1 Work range of logic input Configurable Not galvanically isolated IO-Link®, SIO mode support IO-Link®, communication mode IO-Link®, communication mode IO-Link®, port class A IO-Link®, number of ports IO-Link®, process data width OUT 2 Byte IO-Link®, process data content OUT 1 bit (move in) 1 bit (move out) 1 bit (quit error)	Basic weight with 0 mm stroke	818 g
Number of digital logic inputs Logic input specification Based on IEC 61131-2, type 1 Work range of logic input Configurable Not galvanically isolated IO-Link®, SIO mode support Ves IO-Link®, protocol version Device V 1.1 IO-Link®, port class A IO-Link®, port class A IO-Link®, number of ports 1 IO-Link®, process data width OUT 2 Byte IO-Link®, process data content OUT 1 bit (move in) 1 bit (move out) 1 bit (quit error)	Additional weight per 10 mm stroke	24 g
Logic input specification Based on IEC 61131-2, type 1 Work range of logic input Configurable Not galvanically isolated IO-Link®, SIO mode support Yes IO-Link®, protocol version Device V 1.1 IO-Link®, communication mode COM3 (230.4 kBd) IO-Link®, port class A IO-Link®, number of ports I IO-Link®, process data width OUT 2 Byte IO-Link®, process data content OUT 1 bit (move in) 1 bit (move out) 1 bit (quit error)	Number of digital logic outputs 24 V DC	2
Work range of logic input Characteristics of logic input Configurable Not galvanically isolated IO-Link®, SIO mode support Yes IO-Link®, protocol version Device V 1.1 IO-Link®, communication mode COM3 (230.4 kBd) IO-Link®, port class A IO-Link®, number of ports 1 IO-Link®, process data width OUT 2 Byte IO-Link®, process data content OUT 1 bit (move in) 1 bit (quit error)	Number of digital logic inputs	2
Characteristics of logic input Configurable Not galvanically isolated Yes IO-Link®, protocol version Device V 1.1 IO-Link®, communication mode COM3 (230.4 kBd) IO-Link®, port class A IO-Link®, number of ports IO-Link®, process data width OUT IO-Link®, process data content OUT Device V 1.1 IO-Link®, port class A IO-Link®, number of ports I bit (move in) I bit (move out) I bit (quit error)	Logic input specification	Based on IEC 61131-2, type 1
Not galvanically isolated IO-Link®, SIO mode support Yes IO-Link®, protocol version Device V 1.1 IO-Link®, communication mode COM3 (230.4 kBd) IO-Link®, port class A IO-Link®, number of ports 1 IO-Link®, process data width OUT 2 Byte IO-Link®, process data content OUT 1 bit (move in) 1 bit (move out) 1 bit (quit error)	Work range of logic input	24 V
IO-Link®, protocol version IO-Link®, communication mode COM3 (230.4 kBd) IO-Link®, port class A IO-Link®, number of ports IO-Link®, process data width OUT 2 Byte IO-Link®, process data content OUT 1 bit (move in) 1 bit (move out) 1 bit (quit error)	Characteristics of logic input	
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IO-Link®, communication mode COM3 (230.4 kBd) IO-Link®, port class A IO-Link®, number of ports IO-Link®, process data width OUT IO-Link®, process data content OUT 1 bit (move in) 1 bit (move out) 1 bit (quit error)	IO-Link®, protocol version	Device V 1.1
10-Link®, number of ports 10-Link®, process data width OUT 2 Byte 10-Link®, process data content OUT 1 bit (move in) 1 bit (move out) 1 bit (quit error)	IO-Link®, communication mode	COM3 (230.4 kBd)
IO-Link®, process data width OUT 2 Byte 10-Link®, process data content OUT 1 bit (move in) 1 bit (move out) 1 bit (quit error)	IO-Link®, port class	A
IO-Link®, process data content OUT 1 bit (move in) 1 bit (move out) 1 bit (quit error)	IO-Link®, number of ports	1
IO-Link®, process data content OUT 1 bit (move in) 1 bit (move out) 1 bit (quit error)	IO-Link®, process data width OUT	2 Byte
	IO-Link®, process data content OUT	1 bit (move in) 1 bit (move out)
	IO-Link®, process data width IN	2 Byte

Feature	Value
IO-Link®, process data content IN	1 bit (state device) 1 bit (state move) 1 bit (state in) 1 bit (state out)
IO-Link®, service data contents IN	32 bit force 32 bit position 32 bit speed
IO-Link®, minimum cycle time	1 ms
IO-Link®, data memory required	500 byte
Max. cable length	15 m outputs 15 m inputs 20 m for IO-Link® operation
Switching logic at outputs	NPN (negative switching) PNP (positive switching)
Input switching logic	NPN (negative switching) PNP (positive switching)
Logic interface, connection type	Plug
Logic interface, connection technology	M12x1, A-coded as per EN 61076-2-101
Logic interface, number of poles/wires	8
Logic interface, connection pattern	00992264
Type of mounting	With internal thread With accessories
Note on materials	RoHS-compliant
Housing material	Wrought aluminum alloy, smooth-anodized
Piston rod material	High-alloy stainless steel
Spindle nut material	Steel
Spindle material	Roller bearing steel