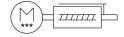
## Electric cylinder unit EPCS-BS-45-100-10P-A-ST-M-H1-PLK-AA

**FESTO** 

Part number: 8118282





## **Data sheet**

Feature	Value
Size	45
Stroke	100 mm
Stroke reserve	0 mm
Piston rod thread	M10x1.25
Reversing backlash	100 μm
Screw diameter	10 mm
Spindle pitch	10 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 <sup>2</sup>
Max. speed	0.23 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 % Permissible voltage fluctuations 4-7-15 % Power supphy, connection technology MI221, 1 coded as per EN 61076 2-111 Power supphy, connection pattern 00995989 Certification RCM compliance mark (K.characters K.E.M.)  CE marking (see declaration of conformity) Repet U. Rotor discretive AS per EU EMC directive IVEX.  In this interviolation of Conformity) Repet EU EMC directive AS per EU EMC directive AS per EU EMC directive IVEX.  In this interviolation of Conformity IVEX.  In this interviolation for EMC To LUK Rotors's instructions IVEX.  In this interviolation for EMC To LUK Rotors's instructions IVEX.  In this interviolation for EMC To LUK Rotors's instructions IVEX.  In this interviolation for EMC To LUK Rotors's instructions of EMC To LUK Rotors's instructions IVEX.  In this interviolation for EMC To LUK Rotors's instructions of EMC To LUK Rotors's instructions IVEX.  In this instruction for EMC To LUK Rotors's instructions of EMC To LUK Rotors's instructions IVEX.  In this instruction for EMC To LUK Rotors's instructions of EMC To LUK Rotors's in	Parameterization interface	
Permissible voltage fluctuations -/.15 % Power supply, connection Plug Power supply, connection technology M12.1, T-coded as per EN 61076-2-111 Power supply, connection technology Power supply, connection pattern O0995989 Certification RCM compliance mark KC characters CE marking (see declaration of conformity) As per EU BNC directive As pe		
Power supply, type of connection Plus Power supply, manection technology MT2x1, T-coded as per EN 61076-2-111 Power supply, connection pattern  O00995999 Certification RC M compliance mark KC EMC KC tharacteris KC EMC KC EMC as per EU Rotts' directive As per EU Rott directive As per EU Rott directive As per EU Rotts' directive Composition for EMC To UK instructions for EMC To UK instructions for EMC To UK Rotts instructions  Fransport application test with severity level 1 as per FN 942017-4 and EM 60068-2-27 Corrosion resistance Shock test with severity level 1 as per FN 942017-5 and EN 60068-2-27 Corrosion resistance class (CRC) O No corrosion stress Assay and EMC EMC Assay and EMC EMC Assay and EMC EMC Assay and EMC EMC Corrosion resistance class (CRC) O No corrosion stress Assay and EMC EMC Relative at humidity O 50 % No corrosion stress Assay and EMC EMC Relative at humidity O 50 % No corrosion stress Assay and EMC EMC Relative at humidity O 50 % No corrosion stress Assay and EMC EMC Relative at humidity O 50 % No corrosion stress O 60 %C Relative at humidity O 50 % No corrosion stress O 60 %C Relative at humidity O 50 % No corrosion stress O 60 %C Relative at humidity O 50 % No corrosion stress O 60 %C Relative at humidity O 50 % No corrosion stress O 60 %C Relative at humidity O 50 % No corrosion stress O 60 %C Relative at humidity O 50 % No corrosion stress O 60 %C Relative at humidity O 60 %C Relative at humid		
Power supply, connection technology  Al 2x1, T coded as per EN 61076 2-111  Power supply, number of pins/wires  4  Power supply, number of pins/wires  4  Certification  KC characters  KC EMC  CE marking (see declaration of conformity)  To LUK and sing (see declaration of conformity)  To LUK Routs instructions for EMC  To LUK Routs instructions for EMC  To LUK Routs instructions for EMC  To LUK Routs instructions  Shock resistance  Shock resistance  Shock resistance (so (RC)  O No corrosion resistance (sos (CRC)  O No Corrosion resistance (sos (SRC)  O No Cor		· ·
Power supply, number of pins/wires  A Power supply, connection pattern  COMPONS SUPPLY, connection pattern  COMPONS SUPPLY, connection pattern  CE marking (See declaration of conformity)  AS per EU Roft directive  AS per EU Roft directive  AS per EU Roft directive  CE marking (See declaration of conformity)  To UK instructions for EMC  INUK Roft sinstructions  Withation resistance  Transport application tests with severity level 1 as per FN 942017-4 and EN 60068-2.6  Shock resistance  Shock resistance  Shock resistance  Shock resistance class (CRC)  O No corrosion stress  VMMA2364 aven III  Storage temperature  2-0°C 60°C  Resistance are invariable to the stress of the stress		
Power supply, connection pattern Certification RCM compliance mark KC characters RC Emarking (see declaration of conformity) As per EU BMC directive As per EU BMC directive IO LIK instructions for EMC IO LIK Robis instructions Withation resistance ITransport application test with severity level 1 as per FN 942017-4 and EN 60068-2-6 Shock resistance Shock resistance Shock resistance Corrosion resistance class (CRC) O No corrosion stress Corrosion resistance Corrosion resis	27	
Certification RCM compliance mark KC characters CC EMC KC EMACING (see declaration of conformity) As per EU EM directive As per EU EM dir		
KC characters  KC Emarking (see declaration of conformity)  As per EU BMC directive AS DMC RASH Sinstructions  Transport application test with severity level 1 as per FN 942017-4 and EN 60068-2-6 EN 60068-2-6 Shock resistance AS CROW On No corrosion stress AS DMC RASH Sinstructions AS CRWIS Conformity  VDMA24364 ame III Storage temperature  -20 °C 60 °C Relative air humidity -20 °C 60 °C Relative air humidity -20 °C 60 °C As Des Group Ambient temperature -20 °C 60 °C -20 °C		
CE marking (see declaration of conformity)  As per EU RMC directive As per EU RMS directive WCA marking (see declaration of conformity)  To UK instructions for EMC To UK RoHS instructions  To UK RoHS instructions  Transport application test with severity level 1 as per FN 942017-4 and EN 60068-2 o  Shock resistance  Shock resistance  Shock sestiatance class (CRC)  O - No corrosion stress  Corrosion resistance class (CRC)  LABS (PMS) conformity  VDMA24364 zone III  Storage temperature  -20 °C60 °C  Relative air humidity  O -90 °K Non-condensing  Degree of protection  IP40  Ambient temperature  Above an ambient temperature of 30°C, the power must be reduced by 2°S per K.  Max. torque MX  O Nm  Max. torque MX  O Nm  Max. torque My  2.9 Nm  Max. torque My  Abax. torque My  Abax		· · · · · · · · · · · · · · · · · · ·
As per EU RoHS directive UKCA marking (see declaration of conformity) To UK instructions for EMC To UK Roms's instructions Vibration resistance Transport application test with severity level 1 as per FN 942017-4 and EN 60068-2.27 Corrosion resistance Shock test with severity level 1 as per FN 942017-5 and EN 60068-2.27 Corrosion resistance class (CRC) O - No corrosion stress  LABS (PWIS) conformity VDMA23464 zone III Storage temperature - 20 °C 60 °C Relative air humidity Non-condensing Degree of protection IP40 Ambient temperature O °C 50 °C Note on ambient temperature Above an ambient temperature of 30°C, the power must be reduced by 2% per K.  Max. torque Mx O Nm Max. torque Mx J. 9 Nm Max. torque My J. 9 Nm Max. torque My J. 9 Nm Max. radial force on actuator shaft IB N N Max. radial force on actuator shaft IB N N Max. red force Ex Guide value for payload, horizontal Oulde value for payload, horizontal J. 8 R Mowing mass at O mm stroke J. 9 g Additional moving mass per 10 mm stroke Additional moving mass per 10 mm stroke Additional weight		
To UK RoHS Instructions   Transport application test with severity level 1 as per FN 942017-4 and FN 60068-2-6   Shock resistance   Shock test with severity level 1 as per FN 942017-5 and EN 60068-2-6   Shock test with severity level 1 as per FN 942017-5 and EN 60068-2-27 (Corrosion resistance class (CRC)   O - No corrosion stress   VDMA24364 zone III   Storage temperature   -20 °C 60 °C   Relative air humidity   O -90 %   Non-condensing   PlaQ		As per EU RoHS directive
EN 60068-2-6 Shock test with severity level 1 as per FN 942017-5 and EN 60068-2-27 Corrosion resistance class (CRC) O No corrosion stress  LABS (PWIS) conformity VDMA24364 zone III Storage temperature 2-0 °C. 60 °C Relative air humidity Non-condensing  Degree of protection IP40 Ambient temperature Note on ambient temperature Note on ambient temperature Note on ambient temperature Nove an ambient temperature Nax. torque MX O N M Max. torque MX O N M Max. torque My 2.9 Nm Max. rotque My 2.9 Nm Max. rotque My 3.9 Nm Max. rotque My 3.9 Nm Max. rotque My 4.9 Nm Max. flore on actuator shaft 180 N Max. flore on actuator shaft 180 N Max. flore on May 138 R Moving mass at 0 mm stroke 179 g Additional moving mass per 10 mm stroke 4.9 8 Product weight 1595 g Basic weight with 0 mm stroke 1185 g Additional weight per 10 mm stroke 4.1 g Number of digital logic inputs Characteristics of logic input Characteristics of logic input Characteristics of logic input Characteristics of logic input Ol-Link®, protecol version Device V1.1 Ol-Link®, protecol version Ol-Link®, protecol state on the III bit (move ou) 1 bit (quit error)	UKCA marking (see declaration of conformity)	To UK RoHS instructions
Corrosion resistance class (CRC)  O - No corrosion stress  VDMA23564 zone III  VDMA23564 zone III  VDMA23664 zone III  PAO  Relative air humidity  O - 90 % Non-condensing  Degree of protection  IPAO  Ambient temperature  O °C 50 °C  Note on ambient temperature  Above an ambient temperature of 30°C, the power must be reduced by 2% per K.  Note on ambient temperature Above an ambient temperature of 30°C, the power must be reduced by 2% per K.  Max. torque Mx  O N m  Max. torque My  2.9 Nm  Max. torque Mz  2.9 Nm  Max. red force Fx  So N  Guide value for payload, horizontal  40 kg  Guide value for payload, horizontal  40 kg  Guide value for payload, vertical  13 kg  Moving mass at 0 mm stroke  Additional moving mass per 10 mm stroke  Additional moving mass per 10 mm stroke  4.9 g  Product weight  1595 g  Basic weight with 0 mm stroke  Additional weight per 10 mm stroke  Ald igial logic outputs 24 V DC  2  Number of digital logic outputs 24 V DC  2  Number of digital logic input  Configurable Not galvanically isolated  Not galvanically isolated  Not galvanically isolated  Not galvanically isolated  IO-Link®, SIO mode support  OI-Link®, protecol version  Device V 1.1  Io-Link®, process data width OUT  2 Byte  IO-Link®, process data content OUT  I bit (move in)  1 bit (move out)	Vibration resistance	
LABS (PWIS) conformity  VDMA24364 zone III  Storage temperature  -20 °C 60 °C  -90 °S  Non-condensing  Degree of protection  IP40  Ambient temperature  0°C 50 °C  Note on ambient temperature  Above an ambient temperature of 30°C, the power must be reduced by 2°S per K.  Max. torque Mx  Asx. torque Mx  Asx. torque My  2.9 Mm  Max. torque My  2.9 Nm  Max. torque My  2.9 Nm  Max. forque My  3.9 Nm  Max. forque My  4.9 S  Guide value for payload, horizontal  40 kg  Guide value for payload, vertical  31 kg  Moving mass at 0 mm stroke  4.9 g  Product weight  1595 g  Basic weight with 0 mm stroke  4.1 g  Additional moving mass per 10 mm stroke  4.1 g  Additional weight per 10 mm stroke  1185 g  Additional weight per 10 mm stroke  32 la g  Number of digital logic outputs 24 V DC  2 Number of digital logic inputs  2 logic input  3 AV  Configurable  Not galvanically isolated  Not galvanically isolated  10-Link®, protocol version  10-Link®, protocol version  10-Link®, protoces data width OUT  2 Byte  10-Link®, process data content OUT  1 bit (move in)  1 bit (move out)  1 bit (move in)  1 bit (move out)  1 bit (move in)  1 bit (move out)	Shock resistance	Shock test with severity level 1 as per FN 942017-5 and EN 60068-2-27
Storage temperature - 20 °C 60 °C 90 °C 80 °C 80 °C 90 °S 80 °C 90 °S 80 °C 90 °S 80 °C 90 °	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  Ass. torque My  Ass. torque Mz  Max. torque Mz  Ass. torque Mz  As	LABS (PWIS) conformity	VDMA24364 zone III
Non-condensing  Degree of protection  Note on ambient temperature  Note on ambient temperature  Note on ambient temperature  Note on ambient temperature  Above an ambient temperature of 30°C, the power must be reduced by 2% per K.  Max. torque Mx  Nax. torque My  2.9 Nm  Max. torque My  2.9 Nm  Max. torque Mz  2.9 Nm  Max. torque Mz  2.9 Nm  Max. redial force on actuator shaft  180 N  Max. feed force Fx  250 N  Guide value for payload, horizontal  40 kg  Guide value for payload, vertical  13 kg  Moving mass at 0 mm stroke  179 g  Additional moving mass per 10 mm stroke  179 g  Additional moving mass per 10 mm stroke  1188 g  Additional weight per 10 mm stroke  41 g  Number of digital logic outputs 24 V DC  2  Number of digital logic inputs  24 V  Characteristics of logic input  Configurable  Not galvanically isolated  10-Link®, protocol version  Device V 1.1  10-Link®, protocol version  Device W 1.1  10-Link®, process data width OUT  2 Byte  10-Link®, process data width OUT  1 Link (move out)  1 bit (move out)  1 bit (move out)  1 bit (quit error)	Storage temperature	-20 °C 60 °C
Ambient temperature Note on ambient temperature Note on ambient temperature Above an ambient temperature of 30°C, the power must be reduced by 2% per K.  Max. torque Mx  Not Max. torque My Ass. torque My Ass. torque Mz Ass. torque	Relative air humidity	
Above an ambient temperature of 30°C, the power must be reduced by 2% per K.  Max. torque Mx  0 Nm  Max. torque My  2.9 Nm  Max. radial force on actuator shaft  180 N  Max. rede force Fx  250 N  Guide value for payload, horizontal  Guide value for payload, vertical  13 kg  Moving mass at 0 mm stroke  Additional moving mass per 10 mm stroke  4.9 g  Product weight  1595 g  Basic weight with 0 mm stroke  Additional weight per 10 mm stroke  Number of digital logic outputs 24 V DC  2 Number of digital logic inputs  Characteristics of logic input  Characteristics of logic input  Characteristics of logic input  Ol-Link®, SIO mode support  Ol-Link®, communication mode  Ol-Link®, communication mode  Ol-Link®, communication mode  Ol-Link®, norcess data content OUT  1 bit (move unt)  1 bit (move unt)  1 bit (move unt)  1 bit (move out)  1 bit (move unt)	Degree of protection	IP40
2% per K.  Max. torque Mx  0 Nm  Max. torque My  2.9 Nm  Max. radial force on actuator shaft  180 N  Max. feed force Fx  250 N  Guide value for payload, horizontal  40 kg  Guide value for payload, vertical  13 kg  Moving mass at 0 mm stroke  179 g  Additional moving mass per 10 mm stroke  4.9 g  Product weight  Basic weight with 0 mm stroke  41 g  Number of digital logic outputs 24 V DC  2 Number of digital logic inputs  24 V  Characteristics of logic input  Characteristics of logic input  10-Link®, SIO mode support  10-Link®, protocol version  10-Link®, protocess data content OUT  2 Byte  10-Link®, process data content OUT  1 bit (move out)	Ambient temperature	0 ℃ 50 ℃
Max. torque My  Max. torque Mz  2.9 Nm  Max. radial force on actuator shaft  180 N  Max. feed force Fx  250 N  Guide value for payload, horizontal  40 kg  Guide value for payload, vertical  Moving mass at 0 mm stroke  Additional moving mass per 10 mm stroke  Additional moving mass per 10 mm stroke  1185 g  Additional weight per 10 mm stroke  1185 g  Additional weight per 10 mm stroke  41 g  Number of digital logic outputs 24 V DC  2  Number of digital logic inputs  22  Logic input ysecification  Based on IEC 61131-2, type 1  Work range of logic input  Configurable Not galvanically isolated  Not galvanically isolated  IO-Link®, SIO mode support  IO-Link®, communication mode  COM3 (230.4 kBd)  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)	Note on ambient temperature	
Max. torque Mz  2.9 Nm  Max. radial force on actuator shaft  180 N  Max. feed force Fx  250 N  Guide value for payload, horizontal  40 kg  Guide value for payload, vertical  13 kg  Moving mass at 0 mm stroke  Additional moving mass per 10 mm stroke  4.9 g  Product weight  Basic weight with 0 mm stroke  41 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  O'Link®, SIO mode support  Ves  10-Link®, protocol version  Device V 1.1  O'Link®, protocss data width OUT  2 byte  10-Link®, process data content OUT  1 bit (move out) 1 bit (quit error)	Max. torque Mx	0 Nm
Max. radial force on actuator shaft  Max. feed force Fx  250 N  Guide value for payload, horizontal  40 kg  Guide value for payload, vertical  13 kg  Moving mass at 0 mm stroke  Additional moving mass per 10 mm stroke  4.9 g  Product weight  1595 g  Basic weight with 0 mm stroke  41 g  Number of digital logic outputs 24 V DC  2  Number of digital logic input  Characteristics of logic input  Characteristics of logic input  Othink®, SIO mode support  Othink®, protocol version  Othink®, protocals data width OUT  Othink®, process data width OUT  Othink®, process data content OUT  Ibit (move in)  1 bit (move out)	Max. torque My	2.9 Nm
Max. feed force FX Guide value for payload, horizontal Guide value for payload, vertical 13 kg Moving mass at 0 mm stroke 179 g Additional moving mass per 10 mm stroke 4.9 g Product weight 1595 g Basic weight with 0 mm stroke 418 Mumber of digital logic outputs 24 V DC 2 Number of digital logic input 24 V Characteristics of logic input Characteristics of logic input Work range of logic input Characteristics of logic input 10-Link®, protocol version Device V 1.1 DI-Link®, number of ports 10-Link®, process data width OUT 2 Byte 10-Link®, process data content OUT 1 bit (move out)	Max. torque Mz	2.9 Nm
Guide value for payload, horizontal  Guide value for payload, vertical  Moving mass at 0 mm stroke  Additional moving mass per 10 mm stroke  Additional moving mass per 10 mm stroke  Product weight  Basic weight with 0 mm stroke  Additional weight per 10 mm stroke  At 1g  Number of digital logic inputs 24 V DC  2  Number of digital logic inputs  2  Logic input specification  Based on IEC 61131-2, type 1  24 V  Configurable  Not galvanically isolated  Not galvanically isolated  IO-Link®, SIO mode support  Yes  IO-Link®, protocol version  Device V 1.1  COM3 (230.4 kBd)  IO-Link®, number of ports  A  IO-Link®, number of ports  1  Io-Link®, process data width OUT  2 Byte  IO-Link®, process data content OUT  I bit (move in)  I bit (move out)  I bit (move out)  I bit (move out)  I bit (quit error)	Max. radial force on actuator shaft	180 N
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  Al 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  Configurable Not galvanically isolated  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®, 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)	Max. feed force Fx	250 N
Moving mass at 0 mm stroke Additional moving mass per 10 mm stroke 4.9 g  Product weight 1595 g  Basic weight with 0 mm stroke 1185 g  Additional weight per 10 mm stroke 41 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  IO-Link®, SIO mode support Yes  IO-Link®, protocol version Device V 1.1  COM3 (230.4 kBd)  IO-Link®, process data width OUT 2 Byte  IO-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	40 kg
Additional moving mass per 10 mm stroke Product weight 1595 g  Basic weight with 0 mm stroke 1185 g  Additional weight per 10 mm stroke 41 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 O-Link®, protocol version Device V 1.1  O-Link®, port class A  O-Link®, port class A  O-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	13 kg
Product weight  Basic weight with 0 mm stroke  Additional weight per 10 mm stroke  Number of digital logic outputs 24 V DC  Logic input specification  Based on IEC 61131-2, type 1  Work range of logic input  Characteristics of logic input  O-Link®, SIO mode support  O-Link®, protocol version  O-Link®, port class  O-Link®, port class  IO-Link®, process data width OUT  IO-Link®, process data content OUT  Device V 1.1  Io-Link®, process data content OUT  I bit (move out) I bit (quit error)	Moving mass at 0 mm stroke	179 g
Basic weight with 0 mm stroke Additional weight per 10 mm stroke Additional weight per 10 mm stroke 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®, 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	4.9 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	1595 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  Ves  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)	Basic weight with 0 mm stroke	1185 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	41 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®, SIO mode support  IO-Link®, protocol version  IO-Link®, communication mode  IO-Link®, port class  IO-Link®, port class  IO-Link®, number of ports  IO-Link®, process data width OUT  IO-Link®, process data content OUT  ID-Link®, process data content OUT  I bit (move in) I bit (move out) I bit (quit error)	Characteristics of logic input	
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®, SIO mode support	
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