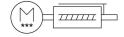
## Electric cylinder unit EPCS-BS-45-50-10P-A-ST-M-H1-PLK-AA

**FESTO** 

Part number: 8118281





## **Data sheet**

Feature	Value
Size	45
Stroke	50 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

CE marking (see declaration of conformity)  As per EU Rick directive As per EU Rick directive UKCA marking (see declaration of conformity)  To UK instructions for EMC To UK Rost Joint Survivors Transport application less with severity level 1 as per FN 942017-4 and EN 60068-2 of Shock resistance  Shock resistance Shock resistance (CRC) O - No corrosion stress Corrosion resistance class (CRC) O - No corrosion stress Corrosion resistance class (CRC) O - No corrosion stress Corrosion resistance class (CRC) O - No corrosion stress Corrosion resistance class (CRC) Corrosion resistance class (CRC) O - No corrosion stress Corrosion resistance class (CRC) Corrosion resistance Corr	Feature	Value
Rotor position sensor resolution  16 bit  Permissible voltage fluctuations  -/-15 %  Power supply, to per Connection  Plug  Power supply, connection performance of pins / wires  A  Power supply, connection pattern  00999989  RCM compliance mark  RC Maccompliance  RC Maccompliance  RC Maccompliance  RC Maccompliance  RC Maccompliance  RC Maccompliance  RC Maccomplia	Parameterization interface	
Permissible voltage fluctuations -/.15 % Power supply, connection exheriology M124, T-coded as per EN 61076-2-111 Power supply, connection technology M24, T-coded as per EN 61076-2-111 Power supply, connection pattern O0995899 Certification RCM compliance mark KC characters CE marking (see declaration of conformity) As per EU ENC directive As per EU		
Power supply, type of connection Power supply, connection rectinology MT2x1, T-coded as per EN 61076-2-111 Power supply, connection pattern O0099899 Certification RCM compliance mark KC-EMC K		
Power supply, connection technology  All 2x1, T coded as per EN 61076 2-111  Power supply, number of pins wires  A 00995/89  Certification  KC characters  CE marking (see declaration of conformity)  As per EU ENC directive As per EU EU ENC directive As per EU		- ·
Power supply, number of pins/wires  A Power supply, connection pattern  Coops supply, connection pattern  Comparison of CRM compliance mark  KC characters  KC Emrking (see declaration of conformity)  As per EU Roft5 directive  As per EU Roft5 directive  As per EU Roft5 directive  It of UK instructions for EMC  To UK instructions  To UK instructions  To UK Rofts instructions  To UK Rofts instructions  To UK Rofts instructions  To How Roft5 directive  EN 60068 2-6  EN 60068 2-6  Shock resistance  Shock resistance  Shock resistance  Shock resistance class (CRC)  O - No corrosion stress  To corrosion resistance class (CRC)  LABS (PWIS) conformity  VDMA24364 20ne III  Storage temperature  20 °C 60 °C  Retained as in humidity  O - 90 %  Non condensing  Degree of protection  Ambient temperature  O °C 50 °C  Note on ambient temperature  Above an ambient temperature of 30°C, the power must be reduced by 2°C per Control on the protection on the protection on the protection of the protection on the protection		
Power supply, connection pattern Certification RCM compliance mark KC characters KC Emarking (see declaration of conformity) RA per EUL BMC directive As per EUL BMC directive INCA marking (see declaration of conformity) RCM compliance mark INCA marking (see declaration of conformity) RCM more marking (see declaration of conformity) RCM 6068-2-6 RCM		
Certification RCM compliance mark KC characters CC EMC KC EMACK CC EMACKING (see declaration of conformity) As per EU EM directive BUKCA marking (see declaration of conformity)  UKCA marking (see declaration of conformity)  Vibration resistance  Image: Ima	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
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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 º C60 ° C   Relative air humidity   O -90 %   Non-condensing   PaO   P	CE marking (see declaration of conformity)	As per EU RoHS directive
EM 60068-2-6 Shock 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 VDMA24364 zone III Storage temperature 20 °C 60 °C Relative air humidity Non-condensing  Degree of protection IP40 None on 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 N M Max. torque Mx Aux. torque My Aux. torque My Aux. roque My Aux. redeforce Fx Above an ambient temperature of 30°C, the power must be reduced by 2% per K.  Builde value for payload, horizontal Above an ambient per funding the pe	UKCA marking (see declaration of conformity)	
Corrosion resistance class (CRC)  ABS (PWIS) conformity  VDMA2364 zone III  VDMA2364 zone III  VDMA2364 zone III  PAO  Relative air humidity  0 - 90 % Non-condensing  Degree of protection  Ambient temperature  0 °C 50 °C  Note on ambient temperature  Above an ambient temperature of 30°C, the power must be reduced by 2% per K.  Nax. torque Mx  0 Nm  Max. torque Mx  0 Nm  Max. torque My  2.9 Nm  Max. torque My  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  Additional moving mass per 10 mm stroke  4.9 g  Product weight  1390 g  Basic weight with 0 mm stroke  Additional weight per 10 mm stroke  1185 g  Additional weight per 10 mm stroke  1185 g  Number of digital logic input  Configurable  Not galvanically isolated  Not galvanically isolated  Not galvanically isolated  Not galvanically isolated  OL-link®, proteool version  Device V 1.1  Cl-link®, process data width OUT  2 Byte  IO-Link®, process data content OUT  1 bit (move out)	Vibration resistance	, , , , , , , , , , , , , , , , , , , ,
LABS (PWIS) conformity  VDMA24364 zone III  Storage temperature  -20 °C 60 °C  Relative air humidity  0 -90 % 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% per K.  Max. torque Mx  0 Nim  Max. torque My  2.9 Nm  Max. torque My  2.9 Nm  Max. torque My  2.9 Nm  Max. redial force on actuator shaft  180 N  Max. forque My  2.9 Nm  Max. redial for payload, horizontal  40 kg  Guide value for payload, vertical  31 kg  Moving mass at 0 mm stroke  179 g  Additional moving mass per 10 mm stroke  4.9 g  Product weight  1390 g  Basic weight with 0 mm stroke  4.1 g  Number of digital logic outputs 24 V DC  2 Unumber of digital logic inputs  2 d V  North range of logic input  Configurable Not galvanically isolated  Not galvanically isolated  10-Link®, protocol version  Device V1.1  10-Link®, protocol state output	Shock resistance	Shock test with severity level 1 as per FN 942017-5 and EN 60068-2-27
Storage temperature	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  Max. torque Mz  Ass. torque Mz  As	LABS (PWIS) conformity	VDMA24364 zone III
Non-condensing  Degree of protection  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  Max. torque My  2.9 Nm  Max. torque My  2.9 Nm  Max. torque Mz  2.9 Nm  Max. torque Mz  2.9 Nm  Max. fore 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  41 g  Number of digital logic outputs 24 V DC  2  Number of digital logic outputs 24 V DC  2  Number of digital logic input  Clogic input specification  Work range of logic input  Configurable Not galvanically isolated  IO-Link®, protocol version  Device V 1.1  IO-Link®, protocol version  Device V 1.1  IO-Link®, porcess data width OUT  2 Byte  ID-Link®, process data content OUT  1 bit (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  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. 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  4.9 g  Product weight  1390 g  Basic weight with 0 mm stroke  41 g  Number of digital logic outputs 24 V DC  2 Number of digital logic inputs  2 Logic input specification  Work range of logic input  Characteristics of logic input  Characteristics of logic input  Characteristics of logic input  Ol-Link®, SlO mode support  Yes  Ol-Link®, protecol version  Device V 1.1  Ol-Link®, communication mode  Ol-Link®, number of ports  1 bit (move in)  Link (move out)  Libt (quit error)	Relative air humidity	
Note on ambient temperature  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 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 1390 g  Basic weight with 0 mm stroke 41 g  Number of digital logic outputs 24 V DC 2  Number of digital logic inputs 2 d V  Characteristics of logic input Characteristics of logic input Characteristics of logic input Ves  Do-Link®, SIO mode support Ves  Do-Link®, proteos data ontent OUT 1bit (move in) 1bit (move out)	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  1390 g  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  10-Link®, SIO mode support  10-Link®, protocol version  10-Link®, protocss data width OUT  10-Link®, process data content OUT  1 bit (move unt)	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 psecification  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 width 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  179 g  Additional moving mass per 10 mm stroke  4.9 g  Product weight  1390 g  Basic weight with 0 mm stroke  41 g  Number of digital logic outputs 24 V DC  2 Number of digital logic inputs  2 Logic input specification  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®, process 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  1390 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  O-Link®, SIO mode support  O-Link®, protocol version  Device V 1.1  O-Link®, protocess data width OUT  O-Link®, process data content OUT  Libit (move in)  Libit (move in)  Libit (move out)  Libit (move out)  Libit (move out)  Libit (move out)  Libit (move in)  Libit (move out)  Libit (move out)  Libit (move out)  Libit (move out)  Libit (move in)  Libit (move out)  Libit (move in)  Libit (move out)  Libit (move out)  Libit (move in)  Libit	Max. torque My	2.9 Nm
Max. feed force FX Guide value for payload, horizontal Guide value for payload, vertical Additional moving mass at 0 mm stroke Additional moving mass per 10 mm stroke Additional moving mass per 10 mm stroke Additional moving mass per 10 mm stroke Additional weight with 0 mm stroke Additional weight per 10 mm stroke Also guide wei	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  Product weight  Basic weight with 0 mm stroke  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  2  Logic input specification  Work range of logic input  Characteristics of logic input  Characteristics of logic input  Work ange of logic input  Characteristics of logic input  Configurable Not galvanically isolated  IO-Link®, Protocol version  Device V 1.1  Collink®, 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  bit (move out) 1 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  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  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®, process 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	250 N
Moving mass at 0 mm stroke Additional moving mass per 10 mm stroke 4.9 g  Product weight 1390 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  IO-Link®, SIO mode support Yes  IO-Link®, protocol version Device V 1.1  OLink®, ommunication mode COM3 (230.4 kBd)  IO-Link®, process data width OUT 2 Byte  IO-Link®, process data content OUT 1 bit (move un) 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 1390 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 solo mode support Yes  IO-Link®, protocol version Device V 1.1  IO-Link®, port class A  IO-Link®, process data width OUT Jorden Support  Ibit (move in) Jobit (move out) Jobit (move out) Jobit (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  Work range of logic input  Characteristics of logic input  OLink®, SIO mode support  OLink®, protocol version  OLink®, port class  OLink®, port class  OLink®, process data width OUT  OLink®, process data content OUT  Dit (move in)  1 bit (move out)  1 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  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  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	1390 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®, 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)	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  Yes  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  I  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®, 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)		Based on IEC 61131-2, type 1
Characteristics of logic input  Configurable Not galvanically isolated  Yes  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  IO-Link®, process data content OUT  I bit (move in) I bit (move out) I bit (quit error)	Characteristics of logic input	
IO-Link®, protocol version  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)	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
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)	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	

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