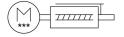
## Electric cylinder unit EPCS-BS-45-200-3P-A-ST-M-H1-PLK-AA

**FESTO** 

Part number: 8118278





## **Data sheet**

Feature	Value
Size	45
Stroke	200 mm
Stroke reserve	0 mm
Piston rod thread	M10x1.25
Reversing backlash theoretical	100 μm
Spindle diameter	10 mm
Spindle pitch	3 mm/U
Torsional backlash at piston rod +/-	1 deg
Mounting position	optional
Piston-rod end	Male thread
Type of motor	Stepper motor
Design	Electric cylinder With ball screw drive With integrated drive
Spindle type	Ball screw drive
Symbol	00997294
Protection against torque/guide	With plain-bearing guide
Referencing	Positive fixed stop block Negative fixed stop block Reference switch
Rotor position sensor	Absolute single-turn encoder
Rotor position sensor, encoder measuring principle	Magnetic
Additional functions	User interface Integrated end-position sensing
Display	LED
Ready status indication	LED
Max. acceleration	1.5 m/s <sup>2</sup>
Max. speed	0.074 m/s
Repetition accuracy	±0.02 mm
Features of digital logic outputs	Configurable Not galvanically isolated
Duty cycle	100%
Insulation protection class	В
Max. current digital logic outputs	100 mA
Max. current consumption	3000 mA
Nominal voltage DC	24 V
Nominal current	3 A

Relative air humidity  Degree of protection  IP40  Ambient temperature  O °C 50 °C  Note on ambient temperature  Now, moment Mx  O Nm  Max. moment My  Amx. moment My  Amx. radial force at drive shaft  Nax. radial force at drive shaft  Nax. redule effective load, horizontal  Reference value effective load, vertical  Reference value effective load, vertical  Reference value effective load, vertical  Additional moving mass per 10 mm stroke  Additional moving mass per 10 mm stroke  Additional weight per 10 mm stroke  Additional weight per 10 mm stroke  Additional weight logic input  Based on IEC 61131-2, type 1  Working range of logic input  Configurable  Not galvanically isolated  IO-Link, Protocol version  Device V 1.1  IO-Link, communication mode  IO-Link, Process data content OUT  Link (move out)	Feature	Value
Rotor position transducer resolution 16 bit Permissible voltage fluctuations -7-15%  Permissible voltage fluctuations -7-15%  Physe  Physe  Physe  Physe  Physe  Physe supply, connection system   M12a1, Todded according to EN 61076 2-111  Physe  Physe supply, connection pattern   00999989  Approval   RCM trademark  KC-ENV  CE mark (see declaration of conformity)   To EU ENC Directive  In accordance with EU RotIS Directive In to FN 942017-5 and EN 60068-2-27  In accordance with severity level 1 to FN 942017-5 and EN 60068-2-27  In accordance with severity level 1 to FN 942017-5 and EN 60068-2-27  In accordance with severity level 1 to FN 942017-5 and EN 60068-2-27  In accordance with severity level 1 to FN 942017-5 and EN 60068-2-27  In accordance with severity level 1 to FN 942017-5 and EN 60068-2-27  In accordance with severity level 1 to FN 942017-5 and EN 60068-2-27  In accordance with severity level 1 to FN 942017-5 and EN 60068-2-27  In accordance with severity level 1 to FN 942017-5 and EN 60068-2-27  In accordance with severity level 1 to FN 942017-5 and EN 60068-2-27  In accordance with severity level 1 to FN 942017-5 and EN	Parameterisation interface	
Permissible voltage fluctuations  - y-15%  Prower supply, connection type  Power supply, connection system  M22.1, T-coded according to EN 61076-2-111  Power supply, connection pattern  00995989  Approval  RCM trademark  KC mark  KC mark  KC mark  KC mark  KC mark  KC mark  CE mark (see declaration of conformity)  To EU ENC Directive In accordance with EU Rolf Si Directive In accordance with EU Rolf Si Directive In Conformation In EU ENC Directive In Section of Conformity  Vibration resistance  Emport application test with severity level 1 to FN 942017-4 and EN 60069-2-6  Shock resistance  Shock resistance  Shock resistance (as CRC  O-No corrosion stress  Corrosion resistance class CRC  O-No corrosion stress  LABS (PWIS) conformity  VDMAV2646-2 one III  Storage temperature  20°C	Potor position transducer resolution	
Power supply, connection type power supply, connection system M2x1, T-coded according to EN 61076-2-111 Power supply, number of pinsy-wires 4 Power supply, connection pattern Approval RCM trademark RC ENW RC Emark (see declaration of conformity) For ENW (see In a conformity) For ENW (see In Section 1) For ENW (see In Section 1) For ENW (see In Section 1) For ENW (see In Section 2) For	•	
Power supply, connection system  M12x1, T coded according to EN 61076 2:111  Power supply, number of pins wires  4  Power supply, connection pattern  00995/899  Approval  KC Mark  KC MAY  KC MAY  E Bard Gedicatation of conformity)  To EU EMC Directive In accordance with EU Roll Si Directive In accordance with EU Roll Si Directive In Secondance with Europe 1 to FN 942017-4 and EN 60068-2-6  Shock resistance Shock resistance Shock resistance class CRC O No corrosion resistance class CRC O No corrosion stress LABS (PWIS) conformity VDMA24364 sone III Secondance II Secondance I		· ·
Power supply, number of pins/wires  Power supply, connection pattern  Dopp95989  RCM trademark  KC EMW  CE mark (see declaration of conformity)  To EU EMC Directive In accordance with EU ROHS Directive In accordance with EU ROHS Directive In accordance with EU ROHS Directive In CU K RoHS instructions  To UK instructions for EMC  (to UK RoHS instructions)  To UK RoHS instructions  Transport application tests with severity level 1 to FN 942017-4 and EN 60068-7-6  Shock resistance  Shock resistance  Shock resistance   Shock test with severity level 1 to FN 942017-5 and EN 60068-7-6  Shock resistance   O - No corrosion stress  CASS PWIS) conformity  VDMA24364 zone III  Storage temperature  2-0° C 60° C  Relative sir humidity  0 - 90%, Non-condensing  Degree of protection  IP40  Ambient temperature  0° C 50° C  Max. moment Mx  0 Nm  Max. moment Mx  1.9 Nm  Max. moment Mx  2.9 Nm  Max. moment Mx  3.9 Nm  Max. red force fx  Reference value effective load, horizontal  8c Reference value effective load, vertical  23 kg  Moving mass for of ma stroke  Additional moving mass per 10 mm stroke  4.9 g  Reference value effective load, vertical  23 kg  Moving mass for of mm stroke  Additional moving mass per 10 mm stroke  4.1 g  Number of digital logic inputs  Based on ICC 61131.2, type 1  Working range of logic input  Configurable  Nor gavanically isolated  Nor gavanically isolated  Nor gavanically isolated  Nor gavanically isolated  Nor louis, Forcess data content OUT  1-bit (move out)  1-b		
Power supply, connection pattern Approval Approval Approval Approval Approval Approval Approval Approval Approval CE mark (see declaration of conformity) To EU EAC Directive In accordance with EU BoHS Directive In accordance with EU BoHS Directive In accordance with EU BoHS Directive To UK instructions for EMC To UK RohS instructions Transport application test with severity level 1 to FN 942017-4 and EN 60068-2-6 Shock resistance Shock resistance Shock resistance associated assoc		
Approval KC mark Koe declaration of conformity) To UK instructions for EMC To UK Rotfs instructions Transport application test with severity level 1 to FN 942017-4 and EN 60064 2-6 Flook Rotfs instructions Flook Rotfs instructions Flook Rotfs instructions Transport application test with severity level 1 to FN 942017-5 and EN 60068-2-27 Corosion resistance Shock resistance Shock test with severity level 1 to FN 942017-5 and EN 60068-2-27 Corosion resistance class CRC O-No corosion stress VDMA2364 are III Storage temperature 20° C 60° C Relative air humidity O-99% Non-condensing PAO Ambient temperature O° C 50° C Relative air humidity O Non-condensing PAO Ambient temperature O° C 50° C Note on ambient temperature O Note on ambient temperature O Note Note on ambient temperature O Note Note on ambient temperature O Note Note on ambient temperature O None Note on ambient temperature O None None may be reduced by 2% per K at ambient temperatures above 30° C. Naz. moment Mx O None Naz. moment Mx O None Naz. moment Mz Naz. moment Mz Naz. redial force at drive shaft 180 N Naz. redial reverse of the shaft 180 N Naz. red force forc		
KC mark CE mark (see declaration of conformity) To EU EMC Directive In accordance with EU ROHS Directive In accordance with EU ROHS Directive To UK Instructions for EMC To UK ROHS Instructions Shock resistance Shock test with severity level 1 to FN 942017-4 and EN 60068 2-6 Shock resistance class CRC On Solo nesistance class CRC On Solo or CRC Relative air humidity VOMA203463 and III Storage temperature On Solo CC Relative air humidity On 90% Non-condensing Degree of protection IP40 Relative air humidity On Solo Relative Annotes the relative temperature On CC 60 °C Relative air humidity On Solo Relative Annotes the relative temperature of the CC. Non-condensing Degree of protection IP40 Non-condensing Degree of protection On CC 60 °C Relative Annotes the relative Annotes above 30 °C. Non-condensing Degree of protection On CC 60 °C Relative Annotes the relative Annotes annot		
CE mark (see declaration of conformity)  To EL BAC Directive  To UK instructions for EMC To UK RoHS instructions  Transport application test with severity level 1 to FN 942017-4 and EN 60082 2-6  Shock resistance  Shock resistance  Corrosion resistance class CRC  O - No corrosion stress  Corrosion resistance class CRC  O - No corrosion stress  Corrosion of the Corrosion stress  Corrosion of the Corrosion stress  2-0 °C 60 °C  Relative air humility  O - 90% Non-condensing  Degree of protection  Ip40  Ambient temperature  Power must be reduced by 2% per K at ambient temperatures above 30°C 50°C  Note on ambient temperature  Power must be reduced by 2% per K at ambient temperatures above 30°C 50°C  Max. moment Mix  O Nm  Max. moment Mix  O Nm  Max. moment Mix  180 N  Max. radial force at drive shaft  Max. fed force Fx  450 N  Reference value effective load, horizontal  Reference value effective load, vertical  Moving mass for 0 mm stroke  179 g  Additional moving mass per 10 mm stroke  1185 g  Additional moving mass per 10 mm stroke  All 18 g  Number of digital logic outputs 24 V DC  2 Number of digital logic input  Verticals  O I Link, Frotocol version  Device V 1.1  OLink, Protection state a content OUT  1-bit (nowe out)		
In accordance with EU ROHS Directive   CE marking (see declaration of conformity)		
To UK RoHS instructions   Transport application test with severity level 1 to FN 942017-4 and EN 60682-6		
Sobok resistance   Shock test with severity level 1 to FN 942017-5 and EN 60068-2-27	CE marking (see declaration of conformity)	
Corrosion resistance class CRC  ABS (PWIS) conformity  VDMA24364 zone III  VDMA24364 zone III  Storage temperature  -20 °C 60 °C  Relative air humidity  Degree of protection  Ambient temperature  O °C 50 °C  Note on ambient temperature  Power must be reduced by 2% per K at ambient temperatures above 30°C.  Max. moment Mx  O Nm  Max. moment My  2.9 Nm  Max. moment My  2.9 Nm  Max. moment Mz  30 N  Max. redial force at drive shaft  180 N  Max. feed force Fx  450 N  Reference value effective load, horizontal  60 kg  Reference value effective load, vertical  79 g  Additional moving mass per 10 mm stroke  179 g  Additional moving mass per 10 mm stroke  1185 g  Additional weight per 10 mm stroke  1185 g  Number of digital logic outputs 24 V DC  2  Number of digital logic input  Based on IEC 61131-2, type 1  Working range of logic input  Configurable  Not galvanically isolated  Not galvanically isolated  IO-Link, Process data content OUT  1-bit (move out)  1-bit (move in)  1-bit (move out)	Vibration resistance	
LABS (PWIS) conformity  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  0 °C 50 °C  Note on ambient temperature  0 °C 50 °C  Note on ambient temperature  0 °N 50 °C  Note on ambient temperature  0 °N 50 °C  Note on ambient temperature  2.9 Mm  Max. moment Mx  2.9 Mm  Max. moment My  2.9 Mm  Max. readial force at drive shaft  180 N  Max. readial force at drive shaft  180 N  Max. feed force Fx  8eference value effective load, horizontal  66 kg  Reference value effective load, vertical  23 kg  Moving mass for 0 mm stroke  179 g  Additional moving mass per 10 mm stroke  179 g  Additional moving mass per 10 mm stroke  1185 g  Additional weight for 0 mm stroke  1185 g  Additional weight per 10 mm stroke  1185 g  Additional weight per 10 mm stroke  12 v  Number of digital logic inputs  24 V  Specification logic input  Based on IEC 61131-2, type 1  Working range of logic input  Working range of logic input  24 V  Festures of logic input  Not galvanically isolated  10-Link, Proteosi data length OUT  1-Link, Proteess data content OUT  1-bit (move in)  1-bit (move in)  1-bit (move out)  1-bit (move out)  1-bit (move in)  1-bit (move out)	Shock resistance	Shock test with severity level 1 to 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  O °C50 °C  Note on ambient temperature  Power must be reduced by 2% per K at ambient temperatures above 30°C.  Max. moment Mx  O Nm  Max. moment My  2.9 Nm  Max. moment Mz  2.9 Nm  Max. readial force at drive shaft  180 N  Max. feed force Fx  Reference value effective load, horizontal  Reference value effective load, vertical  23 kg  Moving mass for 0 mm stroke  179 g  Additional moving mass per 10 mm stroke  1188 g  Additional moving mass per 10 mm stroke  41 g  Number of digital logic outputs 24 V DC  2  Specification logic input  Based on IEC 61131-2, type 1  Working range of logic input  Poets  Poets of logic input  Configurable  Not galvanically isolated  OO-Link, StO-Mode support  Yes  IO-Link, Protocol version  Device V 1.1  OO-Link, communication mode  COM3 (230.4 kBaud)  IO-Link, Process data content OUT  I-bit (move out)  I-bit (quit error)	LABS (PWIS) conformity	VDMA24364 zone III
Degree of protection     IP40       Ambient temperature     0 °C 50 °C       Note on ambient temperature     Power must be reduced by 2% per K at ambient temperatures above 30°C.       Max. moment Mx     0 Nm       Max. moment My     2.9 Nm       Max. moment Mz     2.9 Nm       Max. readial force at drive shaft     180 N       Max. feed force Fx     450 N       Reference value effective load, horizontal     60 kg       Reference value effective load, vertical     23 kg       Moving mass for 0 mm stroke     179 g       Additional moving mass per 10 mm stroke     4.9 g       Product weight     2005 g       Basic weight for 0 mm stroke     41 g       Number of digital logic outputs 24 V DC     2       Number of digital logic input     2       Working range of logic input     Based on IEC 61131-2, type 1       Working range of logic input     24 V       Features of logic input     Configurable Not galvanically isolated       10-Link, Protocol version     Device V 1.1       10-Link, communication mode     COM3 (730.4 kBaud)       10-Link, Protocs data length OUT     2 bytes       10-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
Degree of protection Ambient temperature O °C 50 °C Note on ambient temperature Power must be reduced by 2% per K at ambient temperatures above 30°C. Max. moment Mx O Nm Max. moment My 2.9 Nm Max. moment Mz 3.9 Nm Max. ardial force at drive shaft 180 N Max. feed force Fx 450 N Reference value effective load, horizontal Reference value effective load, vertical 32 kg Moving mass for 0 mm stroke 4.9 g Product weight per 10 mm stroke 1185 g Additional weight feer 10 mm stroke 1185 g Additional weight feer 10 mm stroke 1185 g Additional wing flore input Specification logic input Based on IEC 61131-2, type 1 Working range of logic input Vergatures of logic inpu	Relative air humidity	
Ambient temperature  Note on ambient temperature  Power must be reduced by 2% per K at ambient temperatures above 30°C.  Max. moment Mx  O Nm  Max. moment My  2.9 Nm  Max. moment Mz  2.9 Nm  Max. redial force at drive shaft  180 N  Max. feed force Fx  450 N  Reference value effective load, horizontal  60 kg  Reference value effective load, vertical  79 g  Additional moving mass for 0 mm stroke  4.9 g  Product weight  2005 g  Basic weight for 0 mm stroke  41 g  Number of digital logic outputs 24 V DC  2 Number of digital logic input  Working range of logic input  Working range of logic input  Configurable Not galvanically isolated  10-Link, Protocol version  Device V 1.1  10-Link, Prot class  A  10-Link, Process data content OUT  Libit (move out) Libit (move out	Degree of protection	
Note on ambient temperature  Power must be reduced by 2% per K at ambient temperatures above 30°C.  Max. moment Mx  0 Nm  Max. moment My  2.9 Nm  Max. moment Mz  2.9 Nm  Max. radial force at drive shaft  180 N  Max. feel force Fx  450 N  Reference value effective load, horizontal  Reference value effective load, vertical  23 kg  Moving mass for 0 mm stroke  179 g  Additional moving mass per 10 mm stroke  4.9 g  Product weight  2005 g  Basic weight for 0 mm stroke  418 g  Number of digital logic outputs 24 V DC  2 Number of digital logic input  Specification logic input  Working range of logic input  Configurable Not galvanically isolated  10-Link, Protocol version  Device V 1.1  Ol-Link, Prot class  A  Il-Link, Number of ports  1 loit, Number of ports  1 loit (move in) 1-bit (move out) 1-bit (move in) 1-bit (move out)		
Max. moment Mx  Max. moment My  2.9 Nm  Max. moment Mz  2.9 Nm  Max. moment Mz  2.9 Nm  Max. radial force at drive shaft  180 N  Max. feed force Fx  450 N  Reference value effective load, horizontal  60 kg  Reference value effective load, vertical  23 kg  Moving mass for 0 mm stroke  179 g  Additional moving mass per 10 mm stroke  4.9 g  Product weight  2005 g  Basic weight for 0 mm stroke  4118 g  Additional weight per 10 mm stroke  4118 g  Number of digital logic outputs 24 V DC  2  Number of digital logic input  Based on IEC 61131-2, type 1  Working range of logic input  Working range of logic input  Configurable Not galvanically isolated  IO-Link, SIO-Mode support  IO-Link, Protocol version  Device V 1.1  IO-Link, Port class  A  IO-Link, Process data length OUT  1-bit (move out) 1-bit (move out) 1-bit (move out) 1-bit (move out) 1-bit (quit error)	Note on ambient temperature	Power must be reduced by 2% per K at ambient temperatures above
Max. moment My  Ax. moment Mz  2.9 Nm  Ax. radial force at drive shaft  180 N  Ax. rede force Fx  450 N  Reference value effective load, horizontal  Active load, horizontal  Active load, vertical  Additional moving mass for 0 mm stroke  Additional moving mass per 10 mm stroke  Additional weight per 10 mm stroke  1185 g  Additional weight per 10 mm stroke  1185 g  Additional weight grid input  Additional veight per 10 mm stroke  129 g  Additional weight per 10 mm stroke  1385 g  Additional weight per 10 mm stroke  140 g  Number of digital logic outputs 24 V DC  2  Specification logic input  Based on IEC 61131-2, type 1  Working range of logic input  Configurable Not galvanically isolated  Not galvanically isolated  IO-Link, SIO-Mode support  IO-Link, Port color version  Device V 1.1  IO-Link, communication mode  COM3 (230.4 kBaud)  IO-Link, Porcess data length OUT  Link, Process data content OUT  Link (move out)  Libit (move out)  Libit (move out)  Libit (quit error)	Max. moment Mx	0 Nm
Max. moment Mz  Max. radial force at drive shaft  180 N  Max. feed force Fx  450 N  Reference value effective load, horizontal 60 kg  Reference value effective load, vertical 23 kg  Moving mass for 0 mm stroke 179 g  Additional moving mass per 10 mm stroke 4.9 g  Product weight 2005 g  Basic weight for 0 mm stroke 4118 g  Additional weight per 10 mm stroke 4118 g  Number of digital logic outputs 24 V DC 2  Number of digital logic input Based on IEC 61131-2, type 1  Working range of logic input Configurable Not galvanically isolated  10-Link, Protocol version Device V 1.1  IO-Link, Port class A IO-Link, Number of ports 10-Link, Process data content OUT Link, Process data content OUT Link, Process data content OUT Link, Process data content OUT Link (move out) 1-bit (move out)		
Max. radial force at drive shaft  Max. feed force Fx  450 N  Reference value effective load, horizontal  Reference value effective load, vertical  Additional moving mass for 0 mm stroke  Additional moving mass per 10 mm stroke  Additional moving mass per 10 mm stroke  Additional weight for 0 mm stroke  Additional weight per 10 mm stroke  Additional mei		
Max. feed force FX Reference value effective load, horizontal Reference value effective load, vertical Reference value effective load, horizontal Reference value effective load, eventual Reference value effective load, horizontal Reference value effective load, eventual Reference value Reference value effective load, eventual Reference value		
Reference value effective load, horizontal  Reference value effective load, vertical  23 kg  Moving mass for 0 mm stroke  Additional moving mass per 10 mm stroke  4.9 g  Product weight  Basic weight for 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  Specification logic input  Working range of logic input  Working range of logic input  Configurable Not galvanically isolated  IO-Link, Protocol version  Device V 1.1  COM3 (230.4 kBaud)  IO-Link, Port class  A  IO-Link, Number of ports  IO-Link, Process data content OUT  Libit (move out) 1-bit (move out)		
Reference value effective load, vertical  23 kg  Moving mass for 0 mm stroke  Additional moving mass per 10 mm stroke  4.9 g  Product weight  2005 g  Basic weight for 0 mm stroke  41 g  Number of digital logic outputs 24 V DC  2 Number of digital logic input  Specification logic input  Working range of logic input  Configurable Not galvanically isolated  10-Link, S10-Mode support  Yes  10-Link, Protocol version  Device V 1.1  10-Link, Port class  A  10-Link, Number of ports  1  10-Link, Process data length OUT  10-Link, Process data content OUT  Link (quit error)  23 kg  179 g  4.9 g  4.0 Link, process data length OUT  1	Reference value effective load, horizontal	60 kg
Moving mass for 0 mm stroke Additional moving mass per 10 mm stroke 4.9 g  Product weight 2005 g  Basic weight for 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 input 2  Specification logic input Based on IEC 61131-2, type 1  Working 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 kBaud) IO-Link, Number of ports 1 IO-Link, Process data length OUT 2 bytes  IO-Link, Process data content OUT 1-bit (move in) 1-bit (move out) 1-bit (move out) 1-bit (quit error)		
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Product weight  Basic weight for 0 mm stroke  Additional weight per 10 mm stroke  Number of digital logic outputs 24 V DC  Number of digital logic inputs  Specification logic input  Working range of logic input  Working range of logic input  Configurable Not galvanically isolated  IO-Link, SIO-Mode support  Ves  IO-Link, Protocol version  IO-Link, communication mode  COM3 (230.4 kBaud)  IO-Link, Port class  IO-Link, Process data length OUT  IO-Link, Process data content OUT  I-bit (move out) 1-bit (move out) 1-bit (move out) 1-bit (move out) 1-bit (quit error)		
Basic weight for 0 mm stroke Additional weight per 10 mm stroke Number of digital logic outputs 24 V DC  Number of digital logic inputs 2 Specification logic input Based on IEC 61131-2, type 1 Working 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 kBaud) IO-Link, Port class A IO-Link, Number of ports 1 IO-Link, Process data length OUT 2 bytes IO-Link, Process data content OUT 1-bit (move in) 1-bit (move out) 1-bit (move out) 1-bit (quit error)	<u> </u>	
Additional weight per 10 mm stroke  Number of digital logic outputs 24 V DC  Number of digital logic inputs  Specification logic input  Working range of logic input  Configurable Not galvanically isolated  IO-Link, SIO-Mode support  Ves  IO-Link, Protocol version  IO-Link, Port class  A  IO-Link, Number of ports  IO-Link, Process data length OUT  D-Link, Process data content OUT  Additional weight per 10 mm stroke  41 g  A  Based on IEC 61131-2, type 1  Configurable Not galvanically isolated  Not galvanically isolated  Configurable Not galvanically isolated  COM3 (230.4 kBaud)  IO-Link, Prot class  A  IO-Link, Process data length OUT  2 bytes  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  Number of digital logic inputs  Specification logic input  Working range of logic input  Configurable Not galvanically isolated  IO-Link, SIO-Mode support  IO-Link, Protocol version  IO-Link, Port class  A  IO-Link, Number of ports  IO-Link, Process data length OUT  IO-Link, Process data content OUT  D-Link, Process data content OUT  Comfigurable Not galvanically isolated  Not galvanically isolated  Comfigurable Not galvanically isolated  Comfigurable Not galvanically isolated  Not galvanically isolated  IO-Link, SIO-Mode support  Yes  Comfigurable Not galvanically isolated  Not galvanically isolated  Not galvanically isolated  IO-Link, Protocol version  Device V 1.1  COM3 (230.4 kBaud)  A  IO-Link, Port class  A  IO-Link, Number of ports  I bit (move in) 1-bit (move out) 1-bit (move out) 1-bit (quit error)		
Number of digital logic input  Specification logic input  Based on IEC 61131-2, type 1  Working 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  I Devices data length OUT  Device V 1.1  Device	<u> </u>	
Specification logic input  Working range of logic input  24 V  Features 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 kBaud)  IO-Link, Port class  A  IO-Link, Number of ports  1  IO-Link, Process data length OUT  2 bytes  IO-Link, Process data content OUT  1-bit (move in) 1-bit (move out) 1-bit (quit error)	·	
Working range of logic input  Features 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 kBaud)  IO-Link, Port class  A  IO-Link, Number of ports  1  IO-Link, Process data length OUT  2 bytes  IO-Link, Process data content OUT  1-bit (move in) 1-bit (quit error)		
Features of logic input  Configurable Not galvanically isolated  Yes  IO-Link, Protocol version  Device V 1.1  IO-Link, communication mode  COM3 (230.4 kBaud)  IO-Link, Port class  A  IO-Link, Number of ports  I UO-Link, Process data length 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, Protocol version  IO-Link, communication mode  IO-Link, Port class  IO-Link, Port class  IO-Link, Number of ports  IO-Link, Process data length OUT  IO-Link, Process data content OUT	Features of logic input	Configurable
IO-Link, Protocol version  IO-Link, communication mode  COM3 (230.4 kBaud)  IO-Link, Port class  A  IO-Link, Number of ports  IO-Link, Process data length OUT  2 bytes  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 kBaud)  IO-Link, Port class  A  IO-Link, Number of ports  I UO-Link, Process data length OUT  IO-Link, Process data content OUT  1-bit (move in) 1-bit (move out) 1-bit (quit error)	.,,	
IO-Link, Port class  IO-Link, Number of ports  IO-Link, Process data length OUT  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 length OUT  2 bytes  IO-Link, Process data content OUT  1-bit (move in) 1-bit (move out) 1-bit (quit error)		
IO-Link, Process data length OUT  2 bytes  IO-Link, Process data content OUT  1-bit (move in) 1-bit (move out) 1-bit (quit error)		
IO-Link, Process data content OUT  1-bit (move in) 1-bit (move out) 1-bit (quit error)	'	
1-bit (move out) 1-bit (quit error)		
	IO-Link, Process data content OUT	1-bit (move out)
	IO-Link, Process data length IN	2 bytes

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 IN	32-bit force 32-bit position 32-bit speed
IO-Link, Min. cycle time	1 ms
IO-Link, Data storage required	500 Byte
Max. cable length	15 m outputs 15 m inputs 20 m with IO-Link® operation
Switching logic for outputs	NPN (negative switching) PNP (positive switching)
Switching logic for inputs	NPN (negative switching) PNP (positive switching)
Logic interface, connection type	Plug
Logic interface, connection technology	M12x1, A-coded according to EN 61076-2-101
Logic interface, number of pins/wires	8
Logic interface, plug pattern	00992264
Type of mounting	Via female thread With accessories
Note on materials	RoHS-compliant
Material housing	Smooth-anodised wrought aluminium alloy
Material piston rod	High-alloy stainless steel
Material spindle nut	Steel
Material spindle	Rolled steel