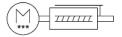
## Electric cylinder unit EPCS-BS-32-100-8P-A-ST-M-H1-PLK-AA

**FESTO** 

Part number: 8118272





## **Data sheet**

Feature	Value
Size	32
Stroke	100 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 <sup>2</sup>
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  Fermissible voltage fluctuations  -/-15 %  Power supph, type of connection  Phys  Power supph, connection technology  M12x1, T. coded as per EN 61076 2 111  Power supph, connection pattern  00995989  Certification  R.C.M. compliance mark  K.C.B.C.  CE marking (see declaration of conformity)  As per EU ENC directive  AS per EU ENC directive  AS per EU ENC directive  AS per EU Rotifi directive  (KCA marking (see declaration of conformity)  To LUK Roters' instructions  (KCA marking (see declaration of conformity)  To LUK Roters' instructions  (KCA marking (see declaration of conformity)  To LUK Roters' instructions  (KCA marking (see declaration of conformity)  To LUK Roters' instructions  (KCA marking (see declaration of conformity)  To LUK Roters' instructions  (KCA marking (see declaration of conformity)  To LUK Roters' instructions for ENC  To LUK Roters' instructions  Transport application test with severity level 1 as per FN 942017-5 and EN 60068-2-6  Shock resistance  Shock resistance  Corrosion resistance class (CRC)  O -No corrosion stress  Corrosion resistance class (CRC)  O -No corrosion stress  VDMA2436a zone III	Parameterization interface	
Permissible voltage fluctuations		
Power supply, type of connection Plug Power supply, manection rectinology MT2x1, T-coded as per EN 61076-2-111  Power supply, connection pattern  O0999999 Certification RCM compliance mark  KC EMC CE marking (see declaration of conformity) As per EU RMC directive As per		
Power supply, connection technology  ## 12x1, T coded as per EN 61076 2:111  ## 2 Power supply, number of pins wires  ## 30099589    Certification		·
Power supply, number of pins/wires  A Power supply, connection pattern  COPONS supply, connection pattern  COPONS supply, connection pattern  CCE marking (See declaration of conformity)  CCE marking (See declaration of colk Kertin interactions  CCC marking (See declaration of colk Kertin interactions  CCC marking (See declaration of colk Kertin interactions  CCC marking (See declaration of colk Kertin interactions  A Parking (See declaration of colk Kertin interaction interaction interaction interaction interaction interaction interaction interaction interaction inte		
Power supply, connection pattern Certification R. K. M. compilance mark K. Characters K. C. EMC CE marking (see declaration of conformity)  Wick characters L. C. Emarking (see declaration of conformity)  Wick marking (see declaration of conformity)  Shock test with severity level 1 as per FN 942017-5 and EN 60068-2-26  Shock resistance  1900 C 50 °C  Non corrosion stress  Shock test with severity level 1 as per FN 942017-5 and EN 60068-2 27  Shock resistance  1900 C 50 °C  Non corrosion stress  Non corrosion stre	7 7 7	
Certification RCM compliance mark KC characters KC EMC KC Emarking (see declaration of conformity) As per EU Brokf directive UKCA marking (see declaration of conformity) To UK instructions for EMC To UK Rolfs Instructions Vibration resistance Transport application test with severity level 1 as per FN 942017-4 and EN 600682-2 of Shock resistance Shock resistance Shock test with severity level 1 as per FN 942017-5 and EN 60068-2-27 Corosion resistance class (CRC) O - No corrosion stress VDMA24364 zone III Storage temperature 20°C 60°C LABS (PWIS) conformity Nor-condensing Pagere of protection Note on ambient temperature O°C 50°C Note on ambient temperature Above an ambient temperature of 30°C, the power must be reduced by 28's per K.  Max. torque Mx O Nm Max. torque My 1.5 Nm Max. torque My 1.6 Nm Max. torque My 1.6 Nm Max. torque My 1.7 S N Max. torque My 1.8 Nm Max. torque My 1.9 Ng Max. torque My 1.1 Ng Max. torque My 1.1 Ng Max. torque My 1.2 Ng Max. torque My 1.3 Ng Max. torque My 1.4 Ng Max. torque My 1.5 Ng Max. torque My 1.6 Ng Max. torque My 1.6 Ng Max. torque My 1.7 Ng Max. torque My 1.8 Ng Max. torque My 1.9 Ng Max. torqu		
KC characters  KC Emarking (see declaration of conformity)  As per EU RoHS directive AS DIVER ASH STRUCTURES AS DIVER AS DIVER AS DIVER AS DIVER ASH STRUCTURES AS DIVER AS D		
EE marking (see declaration of conformity)  As per EU EMC directive As per EU ROKS directive As per EU ROKS directive As per EU ROKS directive IUKCA marking (see declaration of conformity)  To UK instructions for EMC To UK ROHS instructions  Transport application test with severity level 1 as per FN 942017-4 and EN 60068-2-6  Shock resistance Shock resistance class (CRC) O No corrosion stress  Corrosion resistance class (CRC) O No corrosion stress  Corrosion resistance class (CRC)  LABS (PWIS) conformity VDMA24364 zone III  Storage temperature 20 °C 60 °C  Relative air humidity O -90 % 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 22% per K.  Max. torque MX O Nm Max. torque MX O Nm Max. torque MY 1.5 Nm Max. torque My 1.5 Nm Max. torque My Max. torque My Max. torque My 1.5 Nm Max. torque My Max. torque My Max. torque My 1.5 Nm Max. torque My Max. torque My Max. torque My 1.5 Nm Max. torque My 1.5 Nm Max. torque My Max. torque	Certification	· · · · · · · · · · · · · · · · · · ·
As per EU RoNS directive UKCA marking (see declaration of conformity) To UK instructions for EMC To UK Rons instructions Transport application test with severity level 1 as per FN 942017-4 and RN 60068-2.27 Corrosion resistance 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 VDMA23454 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°8 per K.  Max. torque Mx I.5 Nm Max. torque Mx I.5 Nm Max. torque My I.5 Nm Max. radial force on actuator shaft 75 N Max. radial force on actuator shaft 75 N Max. red force Fx Guide value for payload, horizontal 24 kg Guide value for payload, horizontal 38 g Rodide value for payload, ourtical Mowing mass at O mm stroke Additional moving mass per 10 mm stroke 18 g Additional moving mass per 10 mm stroke 18 g Additional weight per 10 mm stroke 818 g Additional weight per 10 mm stroke 82 g  Number of digital logic inputs Configurable Nort range of logic input Configurabl	KC characters	112 2002
To UK RoHS instructions   Transport application test with severity level 1 as per FN 942017-4 and PK 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   VDMA24264 zone III   Storage temperature   -2.0 °C 6.0 °C   Relative air humidity   O -9.0 %   Non-condensing   PP40   N	CE marking (see declaration of conformity)	As per EU RoHS directive
EN 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 - 2-0 °C 60 °C Relative air humidity Non-condensing Degree of protection IP40 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 O Nm Max. torque My 1.5 Nm Max. torque My 1.5 Nm Max. redulatore on actuator shaft 75 N Max. redulatore on actuator shaft 75 N Max. feed force Fx 150 N Guide value for payload, horizontal Guide value for payload, horizontal Sociale value for payload, vertical Moving mass at 0 mm stroke 98 g Additional moving mass per 10 mm stroke 1818 g Additional weight per 10 mm stroke Additional weight per 10 mm stroke 1818 g Additional weight per 10 mm stroke 24 g Number of digital logic inputs Characteristics of logic input Ol-Link®, protecol version Device V1.1 Ol-Link®, protecol stata with 01T 1 bit (move out) 1 bit (quit error)	UKCA marking (see declaration of conformity)	
Corrosion resistance class (CRC)  O - No corrosion stress  VDMA24364 zone III  VDMA24364 zone III  VDMA24364 zone III  O - 90 %  Relative air 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% per K.  Note on ambient temperature of 30°C, the power must be reduced by 2% per K.  Max. torque Mx  O Nm  Max. torque My  1.5 Nm  Max. rorque Mz  1.5 Nm  Max. red force Fx  Iso N  Guide value for payload, horizontal  Suide value for payload, horizontal  Suide value for payload, vertical  Power will be seen an actual or shore  Additional moving mass per 10 mm stroke  Additional moving mass per 10 mm stroke  Additional moving mass per 10 mm stroke  Additional weight per 10 mm stroke  Number of digital 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  Ol-Link®, SIO mode support  Ol-Link®, Fortoccol version  Device V 1.1  Ol-Link®, protess data width OUT  2 Byte  IO-Link®, process data content OUT  Libit (move in)  Libit (move in)  Libit (move out)  Libit (move in)  Libit (move out)  Libit (move out)  Libit (move in)  Libit (move in)  Libit (move in)  Libit (move out)  Libit (move out)  Libit (move out)  Libit (move in)  Libit (move in)  Libit (move out)	Vibration resistance	
LABS (PWIS) conformity  Storage temperature  -20 °C 60 °C  Relative air humidity  0 - 90 %  Non-condensing  Degree of protection  Robere of protection  Note on 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 Nm  Max. torque My  1.5 Nm  Max. torque My  1.5 Nm  Max. torque My  1.5 Nm  Max. rodial force on actuator shaft  75 N  Max. redial force on actuator shaft  75 N  Max. feel force Fx  150 N  Guide value for payload, horizontal  24 kg  Guide value for payload, vertical  Moving mass at 0 mm stroke  98 g  Additional moving mass per 10 mm stroke  98 g  Basic weight with 0 mm stroke  3.3 g  Product weight  1058 g  Basic weight with 0 mm stroke  24 g  Number of digital logic outputs 24 V DC  2  Number of digital logic inputs  10 clink®, protesi fistion  10 -Link®, protocol version  10 -Link®, protocol version  10 -Link®, protocol serion  10 -Link®, protocol sets on tent tout  1 bit (move in)  1 bit (move in)  1 bit (move out)  1 bit (move in)	Shock resistance	Shock test with severity level 1 as per FN 942017-5 and EN 60068-2-27
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 285 per K.  Max. torque Mx  0 Nm  Max. torque My  1.5 Nm  Max. torque Mz  1.5 Nm  Max. radial force on actuator shaft  75 N  Max. feed force Fx  150 N  Guide value for payload, horizontal  Guide value for payload, vertical  Moving mass at 0 mm stroke  98 g  Additional moving mass per 10 mm stroke  3.3 g  Product weight  1058 g  Basic weight with 0 mm stroke  Additional weight per 10 mm stroke  Additional weight per 10 mm stroke  24 g  Number of digital logic outputs 24 V DC  2 Usumber of digital logic input  Characteristics of logic input  Ol-Link®, protocol version  Device V 1.1  Di-Link®, porcess data width OUT  1 bit (move out)  1 bit (move out)  1 bit (move out)  1 bit (quit error)	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. roadial force on actuator shaft  75 N  Max. redial force on actuator shaft  78 N  Max. feed force Fx  150 N  Guide value for payload, horizontal  Guide value for payload, vertical  9 kg  Moving mass at 0 mm stroke  Additional moving mass per 10 mm stroke  3.3 g  Product weight  Basic weight with 0 mm stroke  818 g  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 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®, port cess 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
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  1.5 Nm  Max. torque My  1.5 Nm  Max. torque Mz  1.5 Nm  Max. torque Mz  1.5 Nm  Max. feed force Fx  150 N  Guide value for payload, horizontal  24 kg  Guide value for payload, vertical  9 kg  Moving mass at 0 mm stroke  98 g  Additional moving mass per 10 mm stroke  818 g  Additional moving mass per 10 mm stroke  818 g  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  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 uni)  1 Link (move u	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  Max. torque My  1.5 Nm  Max. torque Mz  1.5 Nm  Max. torque Mz  1.5 Nm  Max. redial force on actuator shaft  75 N  Max. feed force Fx  150 N  Guide value for payload, horizontal  Guide value for payload, vertical  Moving mass at 0 mm stroke  98 g  Additional moving mass per 10 mm stroke  3.3 g  Product weight 1058 g  Basic weight with 0 mm stroke  818 g  Additional weight per 10 mm stroke  Additional weight per 10 mm stroke  24 g  Number of digital logic outputs 24 V DC  2 Number of digital logic inputs  2 c  Logic input specification  Based on IEC 61131-2, type 1  Work range of logic input  Characteristics of logic input  Characteristics of logic input  Ol-Link®, SIO mode support  Yes  Ol-Link®, Forocol version  Device V 1.1  Ol-Link®, protocol version  Ol-Link®, communication mode  Ol-Link®, protess data width OUT  1 bit (move in)  1 bit (move out)	Relative air humidity	
Above an 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. radial force on actuator shaft  75 N  Max. feed force Fx  150 N  Guide value for payload, horizontal  Guide value for payload, vertical  Moving mass at 0 mm stroke  Additional moving mass per 10 mm stroke  Basic weight with 0 mm stroke  818 g  Additional weight per 10 mm stroke  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  Characteristics of logic input  Ol-Link®, SIO mode support  Pes  Ol-Link®, communication mode  COM3 (230.4 kBd)  IO-Link®, process data width OUT  Link®, process data content OUT  Link (move in)  Link (move out)  Link (move in)  Link (move out)  Link (move in)  Link (move in)  Link (move in)  Link (move out)  Link (move in)  Link (move in)  Link (move out)  Link (move in)	Degree of protection	IP40
2% per K.  Max. torque Mx  0 Nm  Max. torque My  1.5 Nm  Max. radial force on actuator shaft  75 N  Max. feed force Fx  150 N  Guide value for payload, horizontal  24 kg  Guide value for payload, vertical  9 kg  Moving mass at 0 mm stroke  98 g  Additional moving mass per 10 mm stroke  3.3 g  Product weight  Basic weight with 0 mm stroke  818 g  Additional weight per 10 mm stroke  818 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®, protocol version  10-Link®, protocess data content OUT  Link (No, process data content OUT  2 Byte  10-Link®, process data content OUT  Link (Incove in)  Libit (move out)  Libit (move in)	Ambient temperature	0 °C 50 °C
Max. torque My  Max. torque Mz  1.5 Nm  Max. torque Mz  1.5 Nm  Max. readial force on actuator shaft  75 N  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  818 g  Product weight  1058 g  Basic weight with 0 mm stroke  818 g  Additional weight per 10 mm stroke  818 g  Number of digital logic outputs 24 V DC  2  Number of digital logic inputs  22 togic input 524 V  Characteristics of logic input  Configurable Not galvanically isolated  Not galvanically isolated  Not galvanically isolated  10-Link®, SIO mode support  10-Link®, communication mode  COM3 (230.4 kBd)  10-Link®, process data width OUT  2 Byte  10-Link®, process data content OUT  1 bit (move out) 1 bit (move out) 1 bit (quit error)	Note on ambient temperature	
Max. torque Mz  1.5 Nm  Max. radial force on actuator shaft  75 N  Max. feed force Fx  150 N  Guide value for payload, horizontal  24 kg  Guide value for payload, vertical  9 kg  Moving mass at 0 mm stroke  Additional moving mass per 10 mm stroke  105 g  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  Characteristics of logic input  Characteristics of logic input  Characteristics of logic input  O'Link®, SIO mode support  Yes  IO-Link®, protocol version  Device V 1.1  IO-Link®, number of ports  A  IO-Link®, process data width OUT  Lore in mode  O'Link®, process data content OUT  Lore in mode  Io Lore in mode	Max. torque Mx	0 Nm
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  Product weight  1058 g  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  Characteristics of logic input  Characteristics of logic input  OLink®, SIO mode support  Ves  IO-Link®, protocol version  Device V 1.1  IO-Link®, protocals  A  IO-Link®, process data width OUT  2 Byte  IO-Link®, process data content OUT  I bit (move in)  1 bit (move out)	Max. torque My	1.5 Nm
Max. feed force FX Guide value for payload, horizontal Guide value for payload, horizontal Guide value for payload, vertical Moving mass at 0 mm stroke 98 g Additional moving mass per 10 mm stroke 1058 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 input 24 V Characteristics of logic input Characteristics of logic input Characteristics of logic input Ves 10-Link®, protocol version Device V 1.1 Cl-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	1.5 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  818 g  Additional weight per 10 mm stroke  24 g  Number of digital logic inputs  2  Logic input specification  Work range of logic input  Characteristics of logic input  Characteristics of logic input  OLink®, SIO mode support  Ves  10-Link®, protocol version  Device V 1.1  Clo-Link®, number of ports  A  10-Link®, number of ports  10-Link®, process data width OUT  2 Byte  10-Link®, process data content OUT  Link®, process data content OUT	Max. radial force on actuator shaft	75 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  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  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 (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 1058 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 Chink®, SIO mode support Ves 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 in) 1 bit (move out) 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 1058 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 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 (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®, 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 (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®, 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 (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  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	1058 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  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	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 (move out) 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)	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	
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  IO-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 width OUT  2 Byte  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