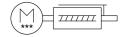
## Electric cylinder unit EPCS-BS-60-100-5P-A-ST-M-H1-PLK-AA Part number: 8118288

**FESTO** 





General operating condition

## **Data sheet**

Feature	Value
Size	60
Stroke	100 mm
Stroke reserve	0 mm
Piston rod thread	M12x1.25
Reversing backlash	100 μm
Screw diameter	12 mm
Spindle pitch	5 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
Temperature monitoring	Shutdown in the event of over temperature Integrated precise CMOS temperature sensor with analogue output
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	0.09 m/s
Speed "Speed Press"	0.01 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	5300 mA

Logic mass current consumption         0.3 %           Comminal current         5.3 Å           Parametricization interface         10 Link®           Rotor position sensor resolution         16 bit           Power supply, type of connection         16 bit           Power supply, type of connection         Plug           Power supply, type of connection pattern         00999889           Confication         RM Tax1, T-coded as per EN 61076-7-111           Power supply, nonection pattern         00999889           Confication         RM Compliance mark           KC characters         KC EMC           CE marking (see declaration of conformity)         As per EU EMC directive           UKCA marking (see declaration of conformity)         To KI Kinstructions for EMC           KIC CAS marking (see declaration of conformity)         To KIN SCH Instructions for EMC           KIN SOBS-2-6         Shock resistance           Shock resistance         Shock see sistance           Concretion resistance class (CRC)         O no consolan stress           LABS PWIS conformity         VDMA2364 cure III           Clearmount class         Class of according to 150 1464-1           Class of protection         Plo           Relative at humidity         O 90 %           Degree of protectio	Feature	Value
Nominal current   S. J. A	Logic max. current consumption	0.3 A
Parameterization interface  Rotor position sensor resolution  16 bit  Remissible voltage fluctuations  Power supply, per Connection  Power supply, per Connection  Power supply, per Connection technology  M12x1, T-coded as per EN 61076-2-111  Power supply, mumber of pins, wires  A 0099899  Certification  RC Mc compliance mark  CC Financian (CC Connection technology)  RC characters  CE marking (see declaration of conformity)  RC characters  CE marking (see declaration of conformity)  RC characters  CE marking (see declaration of conformity)  ROUK An arking (see declaration of conformity)  ROUK ROUS instructions  Vibration resistance  Corrosion resistance  Shock resistance  Shock resistance  Shock resistance  Shock resistance  Shock resistance  Corrosion resistance class (CRC)  O No corrosion stress  LABS PWINS conformity  WDMAZ-2636 zone III  Commorn class  Class of protection  Class of protection  Protection class  III  Regree of protection  Protection class  III  Rabinent temperature  O C 50 °C  Relative air humidity  O 90 %  Non-condensing  Perotection class  III  Rabinent temperature  O C 50 °C  Roto on ambient temperature of 30°C, the power must be reduced by Max. torque Mix  Mix. torque Mix  Mix	DC nominal voltage	24 V
User interface	Nominal current	5.3 A
Rotor position sensor resolution         16 bit           Permissible voltage fluctuations         +7-15 %           Power supply, top of connection         Pug           Power supply, connection retenthology         M12x1, 1-caded as per EN 61076-2-111           Power supply, connection pattern         0099989           Certification         RCM compliance mark           Certification         RCM compliance mark           CE marking (see declaration of conformity)         As per EU EMC directive           AS per EU EMC directive         As per EU EMC directive           AS per EU EMC directive         As per EU EMC directive           UKCA marking (see declaration of conformity)         To UK Rotfis instructions           Vibration resistance         Shock test with severity level 1 as per FN 942017-3 and EN 60068-2-6           Shock resistance         Shock test with severity level 1 as per FN 942017-3 and EN 60068-2-6           Corrosion resistance class (ERC)         0 - No corrosion stress           Corrosion resistance class (ERC)         0 - No corrosion stress           Corrosion resistance class (ERC)         0 - No corrosion stress           Corrosion resistance class (ERC)         0 - No corrosion stress           Shock resistance         Class 9 according to ISO 16644-1           Cleanmount Class         Class 9 according to ISO 16644-1 <td>Parameterization interface</td> <td>IO-Link®</td>	Parameterization interface	IO-Link®
Permissible voltage fluctuations //15 % Power supply, tope of connection Plug Power supply, connection pattern		User interface
Power supply, type of connection Chrology Power supply, connection technology M12x1, "F-coded as per EN 61076-2-111 Powers supply, number of pins, lyvines 4 Powers supply, connection pattern O0999599 Certification RCM compliance mark KC EMC Compliance mark KC characters KC EMC CI marking (see declaration of conformity) RA per EU EMC directive As per EU EMC directive CI marking (see declaration of conformity) For UK Roman State Conformation of the Conformation of	Rotor position sensor resolution	16 bit
Power supply, connection technology  Power supply, number of pins/wires  A 00999999  Certification  KC characters  KC Emarking (see declaration of conformity)  As per EU EN directive	Permissible voltage fluctuations	+/- 15 %
Power supply, number of pins/wires  Power supply, connection pattern  Coertification  RCM compliance mank  KC characters  KC Emarking (see declaration of conformity)  RCM as per EU RMS directive As aper EU RMS directions As aper EU RMS directive As aper EU RMS direction As appear EU RMS dire	Power supply, type of connection	Plug
Fower supply, connection pattern Certification RCM compliance mark CC characters RC Edent RCM CC by RCM CC marking (see declaration of conformity) REMANDER CONTROLL STATE AND ASSESSMENT OF CONTROLL	Power supply, connection technology	M12x1, T-coded as per EN 61076-2-111
Certification   RCM compliance mark	Power supply, number of pins/wires	4
KC characters KC characters KC cemarking (see declaration of conformity) As per EU RMC directive for EMC Composition test with severity level 1 as per FN 942017-5 and EN 60068-2-27 Corrosion resistance As poor EN 942017-5 and EN 60068-2-27 Corrosion resistance As per EU RMC directive for EMC Consolor class As per EU RMC directive As per EU RMC directive for EMC Consolor class As per EU RMC directive As per EU RMC directive for EMC Consolor class As per EU RMC directive for EMC Consolor class As per EU RMC directive As per EU RMC directive for EMC Consolor class As per EU RMC directive As per EU RMC	Power supply, connection pattern	00995989
Et marking (see declaration of conformity)  As per EU RMC directive As per EU RMS directive INCA marking (see declaration of conformity)  To UK instructions for FMC To UK RoHS instructions  To UK RoHS instructions  To UK ROHS instructions  The proposed of the pr	Certification	RCM compliance mark
MA         Aper ELU ROHS directive           UKCA marking (see declaration of conformity)         To UK instructions for EMC TO LIK ROHS instructions           Vibration resistance         Transport application test with severity level 1 as per FN 942017-4 and RN 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)         On ocorrosion stress           LABS (PWIS) conformity         VDMA24364 zone III           Clean room class         Class 9 according to ISO 14644-1           Storage temperature         -20° C 60° C           Relative air humidity         9-90 %           Degree of protection         IP40           Protection class         III           Ambient temperature         0°C 50° C           Note on ambient temperature         0°C 50° C           Note on ambient temperature         0°C 50° C           Max. torque Mx         0 Nm           Max. torque Mx         6.4 Mm           Max. torque Mx         6.4 Mm           Max. torque My         6.5 g           Movide value for payload, horizontal         10° kg	KC characters	KC EMC
To UK RoHS instructions	CE marking (see declaration of conformity)	
EN 60068-2-6         EN 60068-2-6           Shock resistance         Shock rest with severity level 1 as per FN 942017-5 and EN 60068-2-27           Corrosion resistance class (CRC)         0 -N to corrosion stress           LABS (PWIS) conformity         VDMA24364 zone III           Clean con class         Class 9 according to ISO 14644-1           Storage temperature         20 °C 60 °C           Relative air hunidity         0 -90 %           Non-condensing         Non-condensing           Protection class         III           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         6.4 Mm           Max. torque My         6.4 Mm           Max. torque Mx         900 N           Max. torque Mx         40 Mm           Max. torque Mx         46 kg           Guide value for payload, voritantal         120 kg           Guide value for payload, voritantal         120 kg           Moving mass at 0 mm stroke         35 g           Additional moving mass per 10 mm stroke         284 g           Basic weight with 0 mm stroke         298 g           Basic weigh	UKCA marking (see declaration of conformity)	
Corrosion resistance class (CRC)  LABS (PWIS) conformity  VDMAZ4364 zone III  Class 9 according to ISO 14644-1  Storage temperature  20 °C 60 °C  Relative air humidity  0 -90 % Non-condensing  Degree of protection  IP40  Protection class  III  Ambient temperature  0 °C 50 °C  Note on ambient temperature  Note on ambient temperature  Note on ambient temperature  Note on ambient temperature  Nax. torque Mx  Max. torque Mx  Max. torque My  Max. torque Mz  Max. radial force on actuator shaft  230 N  Max. radial force on actuator shaft  230 N  Max. red force FX  Guide value for payload, horizontal  Guide value for payload, horizontal  Moving mass at 0 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  Number of digital logic input  Characteristics of logic input  Note jon mode support  Ves  O-Link®, protoclass  A (CM3 (30.4 kBd)  Device V 1.1	Vibration resistance	
LABS (PWIS) conformity  Cleanroom class  Class 9 according to ISO 14644-1  Storage temperature  .20 °C 60 °C  Relative air hunidity  0 -90 % Non-condensing  Degree of protection  IP40  Protection class  III  Ambient temperature  0 °C 50 °C  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  Max. torque My  6.4 Nm  Max. torque My  6.4 Nm  Max. torque Mg  Max. torque M	Shock resistance	Shock test with severity level 1 as per FN 942017-5 and EN 60068-2-27
Cleanroom class  Class 9 according to ISO 14644-1  Storage temperature  20 °C 60 °C  Relative air humidity  0 -90 % Non-condensing  Degree of protection  IP40  Protection class  III  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  Max. torque My  6.4 Mm  Max. torque My  6.4 Nm  Max. torque Mz  6.4 km  Max. torque Mz  6.4 km  Max. torque Mz  6.4 km  Max. torque Mz  6.6 b G  Guide value for payload, horizontal  120 kg  Guide value for payload, vertical  Maintenance interval  Uife-time lubrication  Moving mass at 0 mm stroke  Additional moving mass per 10 mm stroke  Additional moving mass per 10 mm stroke  Additional weight ber 10 mm stroke  Additional weight per 10	Corrosion resistance class (CRC)	0 - No corrosion stress
Storage temperature -20 °C 60 °C Relative air humidity -0 -90 % Non-condensing Degree of protection   IP40 Protection class   III 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 Mx   64 Nm   Max. torque My   64 Nm   Max. torque Mz   6	LABS (PWIS) conformity	VDMA24364 zone III
Relative air humidity  Degree of protection  Protection class  III  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  6.4 Nm  Max. torque MZ  Max. torque Mz  Max. torque Mz  Max. torque Mz  Max. adial force on actuator shaft  230 N  Max. for on actuator shaft  230 N  Max. for on actuator shaft  46 kg  Maintenance interval  Life-time lubrication  Moving mass at 0 mm stroke  Additional moving mass per 10 mm stroke  Additional moving mass per 10 mm stroke  Additional weight pe	Cleanroom class	Class 9 according to ISO 14644-1
Degree of protection   P40   Protection class   III   Ambient temperature   0°C50°C   Note on ambient temperature   Above an ambient temperature of 30°C, the power must be reduced by 2°6 per K.  Nax. torque Mx   0 Mm   Max. torque My   6.4 Nm   Max. torque My   6.4 Nm   Max. torque Mz   6.4 Nm   Max. radial force on actuator shaft   230 N   Max. fed force Fx   900 N   Guide value for payload, horizontal   120 kg   Maintenance interval   Life-time lubrication   Moving mass at 0 mm stroke   305 g   Additional moving mass per 10 mm stroke   6.5 g   Product weight with 0 mm stroke   2994 g   Basic weight with 0 mm stroke   69 g   Number of digital logic outputs 24 V DC   2   Number of digital logic inputs   2 V   Characteristics of logic input   2 V   Characteristics of logic input   Configurable   Not galvanically isolated   Ol-Link®, S10 mode support   Nestero   Device V 1.1   Dol-Link®, prote class   A    Hill   Configurable   Configurable   Dol-Link®, prote class   A   Dol-Link®, prot	Storage temperature	-20 °C 60 °C
Protection class  Milent 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  6.4 Nm  Max. torque Mz  6.4 Nm  Max. radial force on actuator shaft  230 N  Max. feed force Fx  900 N  Guide value for payload, horizontal  210 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  Additional weight per 10 mm stroke  Additional w	Relative air humidity	
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  6.4 Nm  Max. torque My  6.4 Nm  Max. radial force on actuator shaft  230 N  Max. feed force Fx  900 N  Guide value for payload, horizontal  Life-time lubrication  Moving mass at 0 mm stroke  Additional moving mass per 10 mm stroke  Additional weight per 10 mm stroke  2398 4 g  Basic weight with 0 mm stroke  Additional weight per 10 mm stroke  Cognic input 24 V DC  Logic input 324 V  Characteristics of logic input  Configurable Not galvanically isolated Not galvanically isolated  IO-Link®, SIO mode support  Device V 1.1  IO-Link®, protocol version  Device V 1.1  IO-Link®, port class  A Communication mode  COM3 (230.4 kBd)  IO-Link®, port class	Degree of protection	IP40
Note on ambient temperature  Above an ambient temperature of 30°C, the power must be reduced by 2% per K.  Max. torque Mx  Above an ambient temperature of 30°C, the power must be reduced by 2% per K.  Max. torque My  6.4 Nm  Max. torque Mz  6.4 Nm  Max. torque Mz  6.4 Nm  Max. radial force on actuator shaft  230 N  Max. feed force Fx  900 N  Guide value for payload, horizontal  120 kg  Guide value for payload, vertical  46 kg  Maintenance interval  Life-time lubrication  Moving mass at 0 mm stroke  305 g  Additional moving mass per 10 mm stroke  6.5 g  Product weight  2984 g  Basic weight with 0 mm stroke  469 g  Number of digital logic outputs 24 V DC  20  Number of digital logic inputs  24 V  Characteristics of logic input  Characteristics of logic input  Characteristics of logic input  Oti-link®, S10 mode support  Oti-link®, protocol version  Device V 1.1  Oti-link®, port class  A Mone	Protection class	III
Max. torque Mx0 NmMax. torque My6.4 NmMax. torque Mz6.4 NmMax. torque Mz6.4 NmMax. torque Mz6.4 NmMax. del force on actuator shaft230 NMax. feed force Fx900 NGuide value for payload, horizontal120 kgGuide value for payload, vertical46 kgMaintenance intervalLife-time lubricationMoving mass at 0 mm stroke305 gAdditional moving mass per 10 mm stroke6.5 gProduct weight2984 gBasic weight with 0 mm stroke69 gNumber of digital logic outputs 24 V DC2Number of digital logic inputs2Logic input specificationBased on IEC 61131-2, type 1Work range of logic input24 VCharacteristics of logic inputConfigurable Not galvanically isolated10-Link®, SIO mode supportYes10-Link®, protocol versionDevice V 1.110-Link®, communication modeCOM3 (230.4 kBd)10-Link®, port classA	Ambient temperature	0 °C 50 °C
Max. torque My6.4 NmMax. torque Mz6.4 NmMax. radial force on actuator shaft230 NMax. feed force Fx900 NGuide value for payload, horizontal120 kgGuide value for payload, vertical46 kgMaintenance intervalLife-time lubricationMoving mass at 0 mm stroke305 gAdditional moving mass per 10 mm stroke6.5 gProduct weight2984 gBasic weight with 0 mm stroke2294 gAdditional weight per 10 mm stroke69 gNumber of digital logic outputs 24 V DC2Logic input specificationBased on IEC 61131-2, type 1Work range of logic input24 VCharacteristics of logic input24 VCharacteristics of logic inputYesIO-Link®, SIO mode supportYesIO-Link®, protocol versionDevice V 1.1IO-Link®, communication modeCOM3 (230.4 kBd)IO-Link®, port classA	Note on ambient temperature	
Max. torque Mz  Max. radial force on actuator shaft  230 N  Max. feed force Fx  900 N  Guide value for payload, horizontal  120 kg  Guide value for payload, vertical  Maintenance interval  Moving mass at 0 mm stroke  Additional moving mass per 10 mm stroke  Basic weight with 0 mm stroke  Additional weight per 10 mm stroke  Basic weight with 0 mm stroke  Additional weight per 10 mm stroke  Based on IEC 61131-2, type 1  Configurable Not galvanically isolated  IO-Link®, SIO mode support  Ves  IO-Link®, protocol version  Device V 1.1  IO-Link®, communication mode  IO-Link®, port class  A	Max. torque Mx	0 Nm
Max. radial force on actuator shaft230 NMax. feed force Fx900 NGuide value for payload, horizontal120 kgGuide value for payload, vertical46 kgMaintenance intervalLife-time lubricationMoving mass at 0 mm stroke305 gAdditional moving mass per 10 mm stroke6.5 gProduct weight2984 gBasic weight with 0 mm stroke2294 gAdditional weight per 10 mm stroke69 gNumber of digital logic outputs 24 V DC2Number of digital logic inputs2Logic input specificationBased on IEC 61131-2, type 1Work range of logic input24 VCharacteristics of logic inputConfigurable Not galvanically isolatedIO-Link®, SIO mode supportYesIO-Link®, protocol versionDevice V 1.1IO-Link®, communication modeCOM3 (230.4 kBd)IO-Link®, port classA	Max. torque My	6.4 Nm
Max. feed force FX Guide value for payload, horizontal Guide value for payload, vertical A6 kg Maintenance interval Moving mass at 0 mm stroke Additional moving mass per 10 mm stroke Basic weight with 0 mm stroke Additional weight per 10 mm stroke Additional weight per 10 mm stroke Additional weight logic outputs 24 V DC Aumber 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 Ves IO-Link®, SIO mode support Ves IO-Link®, protocol version Device V 1.1 IO-Link®, port class A  Based on IEC 6013 (230.4 kBd) A  A GRANGE ABBORNA ABG ABBO	Max. torque Mz	6.4 Nm
Guide value for payload, vertical 46 kg Maintenance interval Life-time lubrication Moving mass at 0 mm stroke 305 g Additional moving mass per 10 mm stroke 6.5 g Product weight Basic weight with 0 mm stroke 2294 g Additional weight per 10 mm stroke 69 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 Characteristics of logic input Characteristics of logic input Work protocol version Device V 1.1 IO-Link®, protocol version IO-Link®, port class Addition and weight per 10 mm stroke Additional weight per 10 mm stroke Additional weight per 10 mm stroke Comfigurable Not galvanically isolated Not galvanically isolated Additional weight per 10 mm stroke Additional moving mass at 0 mm stroke Additional moving mass at 0 mm stroke As general weight per 10 mm stroke Additional moving mass at 0 mm stroke As general weight per 10 mm stroke Additional moving mass at 0 mm stroke As general weight per 10 mm stroke As general	Max. radial force on actuator shaft	230 N
Guide value for payload, vertical  Maintenance interval  Life-time lubrication  Moving mass at 0 mm stroke  Additional moving mass per 10 mm stroke  6.5 g  Product weight  Basic weight with 0 mm stroke  2294 g  Additional weight per 10 mm stroke  69 g  Number of digital logic outputs 24 V DC  2 lunger of digital logic inputs  2 24 V  Characteristics of logic input  Configurable Not galvanically isolated  IO-Link®, SIO mode support  Ves  IO-Link®, communication mode  COM3 (230.4 kBd)  Io-Link®, port class  Additional weight per 10 mm stroke  46 kg  305 g  48	Max. feed force Fx	900 N
Maintenance interval  Moving mass at 0 mm stroke  Additional moving mass per 10 mm stroke  6.5 g  Product weight  Basic weight with 0 mm stroke  Additional weight per 10 mm stroke  69 g  Number of digital logic outputs 24 V DC  20  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  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	Guide value for payload, horizontal	120 kg
Moving mass at 0 mm stroke  Additional moving mass per 10 mm stroke  6.5 g  Product weight  2984 g  Basic weight with 0 mm stroke  Additional weight per 10 mm stroke  69 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  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	Guide value for payload, vertical	46 kg
Additional moving mass per 10 mm stroke Product weight Basic weight with 0 mm stroke 2984 g  Additional weight per 10 mm stroke 69 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 24 V  Characteristics of logic input Characteristics of logic input Ves 10-Link®, S10 mode support Ves 10-Link®, protocol version Device V 1.1  IO-Link®, communication mode COM3 (230.4 kBd) IO-Link®, port class	Maintenance interval	Life-time lubrication
Product weight Basic weight with 0 mm stroke 2294 g  Additional weight per 10 mm stroke 69 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 Yes  IO-Link®, SIO mode support Ves  IO-Link®, communication mode COM3 (230.4 kBd) IO-Link®, port class A	Moving mass at 0 mm stroke	305 g
Basic weight with 0 mm stroke Additional weight per 10 mm stroke 69 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 Configurable Not galvanically isolated  IO-Link®, SIO mode support Ves  IO-Link®, communication mode COM3 (230.4 kBd)  IO-Link®, port class A	Additional moving mass per 10 mm stroke	6.5 g
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  Characteristics 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)  A	Product weight	2984 g
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  Characteristics 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)  A	Basic weight with 0 mm stroke	2294 g
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  Characteristics 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)  A	Additional weight per 10 mm stroke	69 g
Number of digital logic inputs  Logic input specification  Based on IEC 61131-2, type 1  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)  A	Number of digital logic outputs 24 V DC	
Work range of logic input  Characteristics 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	Number of digital logic inputs	2
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)  A	Logic input specification	Based on IEC 61131-2, type 1
Not galvanically isolated  10-Link®, SIO mode support  10-Link®, protocol version  10-Link®, communication mode  10-Link®, port class  A  Not galvanically isolated  Yes  10-Link®, SIO mode support  10-Link®, protocol version  10-Link®, communication mode  10-Link®, port class  A	Work range of logic input	24 V
IO-Link®, protocol version  Device V 1.1  IO-Link®, communication mode  COM3 (230.4 kBd)  IO-Link®, port class  A	Characteristics of logic input	
IO-Link®, communication mode COM3 (230.4 kBd) IO-Link®, port class A	IO-Link®, SIO mode support	Yes
IO-Link®, communication mode COM3 (230.4 kBd) IO-Link®, port class A	IO-Link®, protocol version	Device V 1.1
IO-Link®, port class A		COM3 (230.4 kBd)
	IO-Link®, port class	A
	· · · · · · · · · · · · · · · · · · ·	1

Feature	Value
IO-Link®, process data width OUT	2 Byte
IO-Link®, process data content OUT	Move in 1 bit Move out 1 bit Quit Error 1 bit Move Intermediate 1 bit
IO-Link®, process data width IN	2 Byte
IO-Link®, process data content IN	State In 1 bit State Out 1 bit State Move 1 bit State Device 1 bit State Intermediate 1 bit
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