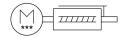
## Electric cylinder unit EPCS-BS-60-400-5P-A-ST-M-H1-PLK-AA

**FESTO** 

Part number: 8118294





General operating condition

## **Data sheet**

Feature	Value
Size	60
Stroke	400 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         2.1 Y           Comminal current         5.3 A           Parametrization interface         10 Link®           Rotor position sensor resolution         16 bit           Power supply, type of connection         16 bit           Power supply, type of connection sectioning         M1xx1, T-coded as per EN 61076-2-111           Power supply, type of connection pattern         000995889           Conficiation         RO Compliance mark           KC characters         KC EMC           CE marring (See declaration of conformity)         As per ELLEMC directive           As per ELLEMC directive         As per ELLEMC directive           CKCAC marking (see declaration of conformity)         Tansport application test with severity level 1 as per FN 942017-4 and the Most instructions for EMC           Vibration resistance         Tansport application test with severity level 1 as per FN 942017-4 and EN 66068-2-6           Shock resistance         Shock test with severity level 1 as per FN 942017-5 and EN 66068-2-6           Carronnom class         Class of the severity level 1 as per FN 942017-5 and EN 66068-2-6           LABS PWISS conformity         VDMA2346-2 and III           Learnound class         Class of the severity level 1 as per FN 942017-5 and EN 66068-2-6           Storage femperature         20 °C 60 °C           Relative at hun	Feature	Value
Nominal current   S. 3.A	Logic max. current consumption	0.3 A
Parameterization interface   Uniterface	DC nominal voltage	24 V
User interface	Nominal current	5.3 A
Retrievable voltage fluctuations	Parameterization interface	IO-Link®
Permissible voltage fluctuations		User interface
Power supply, type of connection Chrology Power supply, connection technology M12x1, T-coded as per EN 61076-2-111 Powers supply, number of plans, fwires 4 Powers supply, connection pattern O0999599 Certification RCM compilance mark KC characters KC EMC CI marking (see declaration of conformity) As per EU EMC directive DUKCA marking (see declaration of conformity) To LIK instructions for EMC UKCA marking (see declaration of conformity) To LIK Romits instructions UKCA marking (see declaration of conformity) To LIK Romits instructions UKCA marking (see declaration of conformity) To LIK Romits instructions UKCA marking (see declaration of conformity) To LIK Romits instructions UKCA marking (see declaration of conformity) To LIK Romits instructions UKCA marking (see declaration of conformity) To LIK Romits instructions UKCA marking (see declaration of conformity) To LIK Romits instructions UKCA marking (see declaration of conformity) To LIK Romits instructions UKCA marking (see declaration of conformity) To LIK Romits instructions To L	Rotor position sensor resolution	16 bit
Power supply, connection technology  Al 21, T-coded as per EN 61076-2-111  Power supply, connection pattern  O0999599  Cartification  KC characters  KC EMC  CE marking (see declaration of conformity)  As per EU ENG directive As per EU AND AS	Permissible voltage fluctuations	+/- 15 %
Power supply, number of pins/wires  Power supply, connection pattern  Coertification  RC characters  KC cEmarking (see declaration of conformity)  RC characters  KC Emarking (see declaration of conformity)  RC characters  RC campaing (see declaration of conformity)  RC Campaing (see declara	Power supply, type of connection	Plug
Fower supply, connection pattern Certification RCM compliance mark CC characters RC Excharacters RC Excharacte	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 Emarking (see declaration of conformity) As per EU EMC directive CMCA 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 60068-2-27 Corrosion resistance Shock resistance Shock resistance Shock resistance (Shock resistance (Shock resistance) Corrosion resistance class (CRC) O - No corrosion stress CLABS (PMS) conformity VDMA2-364 zone III Class on a conformity (Shock resistance) Class	Power supply, connection pattern	00995989
Et marking (see declaration of conformity)  As per EU RMC directive As per EU RMC directive As per EU RMS directive UKCA marking (see declaration of conformity)  To UK instructions for FMC To UK RoHS instructions  To UK RoHS instructions  To UK RoHS instructions  Transport a pipulication test with severity level 1 as per FN 942017-4 and EN 60068-2-6  Shock resistance  Shock test swith severity level 1 as per FN 942017-5 and EN 60068-2-27  Corrosion resistance class (CRC)  0 - No corrosion stress  Class (PWIS) conformity  VDMA24364 zone III  Cleanroom class  Class 9 according to ISO 16644-1  Class 1664 1674-1674  Class 1664 1674-167	Certification	RCM compliance mark
MA         Aper EU RoHS directive           UKCA marking (see declaration of conformity)         To UK instructions for EMC 10 LIK RoHS instructions           Vibration resistance         Transport application test with severity level 1 as per FN 942017-4 and EN 600682-2°           Shock resistance         Shock test with severity level 1 as per FN 942017-5 and EN 600682-27           Corrosion resistance class (CRC)         O - No corrosion 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 hundidity         0-90 % Non-condensing           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° M           Max. torque Mx         0 Nm           Max. torque Mx         6.4 Mm           Max. torque Mx         6.5 g           Guide value for payload, horizontal         10° kg           Guide value for payload, vertical <td>KC characters</td> <td>KC EMC</td>	KC characters	KC EMC
To UK RoHS instructions	CE marking (see declaration of conformity)	
Shock resistance         Shock resistance lass (CRC)         Shock rest 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           Clean com class         Class 9 according to ISO 14644-1           Storage temperature         2.0 °C	UKCA marking (see declaration of conformity)	
Corrosion resistance class (CRC)  LABS (WIS) conformity  VDMAZ4364 zone III  Class 9 according to ISO 14644-1  Storage temperature  2-0° C 60° C  Relative air humidity  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  Nax. torque Mx  Max. torque Mx  Max. torque My  Max. torque Mz  Max. radial force on actuator shaft  Nax. radial force on actuator shaft  Nax. radial force in actuator shaft  Nax. torque Mz  Max. radial force on actuator shaft  Nax. torque Mz  Max. torque M	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  Abbove an 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  6.5 g  Guide value for payload, horizontal  120 kg  Guide value for payload, vertical  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 ther 10 mm stroke  Additional weight per 10 mm stroke  Additional wei	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 Above an ambient temperature of 4.4 Nm Max. torque My Ass. torque Mz Ass. torque Mz Ass. torque Mz Ass. torque Mz Ass. feed force fx Ass. feed fx Ass.	Cleanroom class	Class 9 according to ISO 14644-1
Degree of protection         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 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         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           Additional moving mass per 10 mm stroke         6.9 g           Additional weight per 10 mm stroke         69 g           Mumber of digital logic outputs 24 V DC         2           Number of digital logic inputs         2           Vook range of logic input         24 V           Characteristics of logic input         Configurable Not galvanically isolated           10-Link®, portocol version         Device V1.1	Storage temperature	-20 °C 60 °C
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% per K.  Max. torque Mx ONM  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 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 5054 g  Basic weight with 0 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 Configurable Not galvanically isolated 10-Link®, SIO mode support Per Collink®, protocol version Device V 1.1  O-Link®, protocol version Device V 1.1  O-Link®, port class Ambien 1 ambien ambien temperature of 30°C, the power must be reduced by 2% per K.  Above an ambient temperature of 30°C, the power must be reduced by 2% per K.  Above an ambient temperature of 30°C, the power must be reduced by 2% per K.  Above an ambient temperature of 30°C, the power must be reduced by 2% per K.  III above an ambient temperature of 30°C, the power must be reduced by 2% per K.  Above an ambient temperature of 30°C, the power must be reduced by 2% power M.  III above an ambient temperature of 30°C, the power must be reduced by 2% power M.  III above an ambient temperature of 30°C, the power must be reduced by 2% per K.  III above an ambient temperature of 30°C, the power must be reduced by 2% per K.  III above an ambient temperature of 30°C, the power must be reduced by 2% per K.  III above an ambient temperature of 80°C, the power must be reduced by 2% per K.  III above an ambient temperature of 80°C, the power must be reduced by 2% per K.  III above an ambient temperature of 80°C, the power must be reduced by 20°C, the power must be reduced by 2	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  120 kg  Guide value for payload, vertical  Maintenance interval  Moving mass at 0 mm stroke  Additional moving mass per 10 mm stroke  6.5 g  Product weight  5054 g  Basic weight with 0 mm stroke  Additional weight per 10 mm stroke  69 g  Number of digital logic outputs 24 V DC  10cjic input  40 V  Characteristics of logic input  Characteristics of logic input  10c-Link®, SIO mode support  Device V 1.1  10-Link®, protocol version  Device V 1.1  10-Link®, port class  Addition, one	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  Max. torque My  6.4 Nm  Max. torque Mz  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  Additional moving mass per 10 mm stroke  6.5 g  Product weight  5054 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  24 V  Characteristics of logic input  Characteristics of logic input  Ves  Othink®, S10 mode support  Ves  Othink®, S10 mode support  Othink®, protocol version  Device V 1.1  Othink®, port class  A Max. torque Mx  Above an ambient temperature of 30°C, the power must be reduced by 28 per K.  On Mm  On Mm  On Mm  Admiterial temperature of 30°C, the power must be reduced by a max.  Admiterial temperature of 30°C, the power must be reduced by a max.  Admiterial temperature of 30°C, the power must be reduced by a max.  Admiterial temperature of 30°C the Mm  Admiterial temperature of 40°N mm  Additional moving mass per 10 mm stroke  Additional movin	Protection class	III
Max. torque Mx0 NmMax. torque My6.4 NmMax. torque Mz6.4 NmMax. torque Mz230 NMax. fed 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 weight5054 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 glavanically 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 weight5054 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  Not galvanically isolated  IO-Link®, SIO mode support  Ves  IO-Link®, protocol version  Device V 1.1  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 weight5054 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	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 So54 g 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 Do-Link®, SIO mode support Ves U-Link®, communication mode Guide value for payload, vertical Life-time lubrication Life-time lubrication So5 g Life-time lubrication So5 g So	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 clogic 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®, rotocol version  Device V 1.1  IO-Link®, communication mode  COM3 (230.4 kBd)  IO-Link®, port class	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  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®, port class  A life-time lubrication  305 g  305 g  305 g  305 g  305 g  305 g  307  305 g  307  308 g  309 g  309 g  409 g  400 g  4	Guide value for payload, horizontal	120 kg
Moving mass at 0 mm stroke  Additional moving mass per 10 mm stroke  Froduct weight  Basic weight with 0 mm stroke  Additional weight per 10 mm stroke  Additional weight per 10 mm stroke  Additional weight per 10 mm stroke  Froduct weight with 0 mm stroke  Additional weight per 10 mm stroke  Additional weight per 10 mm stroke  Froduct weight with 0 mm stroke  Additional weight per 10 mm stroke  Additional weight per 10 mm stroke  Froduct weight  Additional weight per 10 mm stroke  Froduct weight  Additional weight per 10 mm stroke  Froduct weight  Frod	Guide value for payload, vertical	46 kg
Additional moving mass per 10 mm stroke  Product weight  Basic weight with 0 mm stroke  Additional weight per 10 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  24 V  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)  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	5054 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)  IO-Link®, port class  A	Logic input specification	Based on IEC 61131-2, type 1
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	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®, protocol version  Device V 1.1  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		Device V 1.1
IO-Link®, port class A	· · · · · · · · · · · · · · · · · · ·	COM3 (230.4 kBd)
		A
	· · · · · · · · · · · · · · · · · · ·	

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