## Electric cylinder unit EPCS-BS-32-100-3P-A-ST-M-H1-PLK-AA

**FESTO** 

Part number: 8118268



General operating condition

## **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	3 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	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	0.079 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	3000 mA

Logic mas. Jurrent consumption	Feature	Value
Nominal current Parametrization interface Stotor position sensor resolution   16 bit	Logic max. current consumption	0.3 A
Parameterization interface  Notor position sensor resolution  To bit  Permissible voltage fluctuations  Power supply por Connection  Power supply, power of pinis vives  A   Power supply, connection technology  M12x1.1 coded as per EN 61076 2.111  A   Power supply, number of pinis vives  A   RC MC compliance mark  KC that Care  Certification  KC characters  CE marking (see declaration of conformity)  As per EU EMC directive As per EU EMC d	DC nominal voltage	24 V
User interface   Rotor position sensor resolution   16 bit   Permissible voltage fluctuations   1/-15 %   Power supply, commedion technology   Plug   Power supply, commedion pattern   00995989   Certification   RCM compliance mark   KC characters   KC EMC   CE marking (see declaration of conformity)   Reper EU LINIC directive   As per	Nominal current	3 A
Retor position sensor resolution	Parameterization interface	IO-Link®
Permissible voltage fluctuations //-15 % Power supply, tope of connection Ping Power supply, connection pattern Power supply, connection pattern Power supply, number of pins/wires / 4 Power supply, number of pins / 4 Power suppl		User interface
Power supply, type of connection Plug Power supply, connection technology M12x1, T-coded as per EN 61076-2-111 Power supply, number of plans/wires 4 Power supply, number of plans/wires (errification RCM compliance mank KC tharacters KC Emarking (see declaration of conformity) As per EU EMC directive As per EU EMC directive UKCA marking (see declaration of conformity) To LUK marking (see declaration of conformity) To LUK Roel's Instructions for EMC UK Roel's Instructions UK Roel's Instructions UK Roel's Instructions To Shock resistance Shock resistance Shock resistance Shock resistance Shock resistance class (CRC) O - No cornosino stress LABS (PWIS) conformity Vibration resistance class (CRC) O - No cornosino stress LABS (PWIS) conformity Vibration resistance class (CRC) O - No cornosino stress LABS (PWIS) conformity Vibration resistance class (CRC) O - No cornosino stress LABS (PWIS) conformity Vibration resistance class (CRC) O - No cornosino stress LABS (PWIS) conformity Vibration resistance class (CRC) O - No cornosino stress LABS (PWIS) conformity Vibration resistance class (CRC) O - No cornosino stress LABS (PWIS) conformity Vibration resistance class (CRC) O - No cornosino stress LABS (PWIS) conformity Vibration resistance class (CRC) O - No cornosino stress LABS (PWIS) conformity Vibration resistance class (CRC) O - No cornosino stress LABS (PWIS) conformity Vibration resistance class (CRC) O - No cornosino stress LABS (PWIS) conformity Vibration resistance class (CRC) O - No cornosino stress LABS (PWIS) conformity Vibration resistance class (CRC) O - No cornosino stress LABS (PWIS) conformity Vibration resistance class (CRC) O - No cornosino stress LABS (PWIS) conformity Vibratical number of stress (PWIS) conformity LABS (PWIS) conf	Rotor position sensor resolution	16 bit
Power supply, connection technology  M32x1, T-coded as per EN 61076-2-111  Power supply, number of pins/wires  A 00999999  Certification  KC characters  KC EMC  CE marking (see declaration of conformity)  As per EU ENG directive As EU ENG	Permissible voltage fluctuations	+/- 15 %
Power supply, number of pins/wires  Power supply, connection pattern  Coerflication  RC characters  KC Emarking (see declaration of conformity)  KC characters  KC Emarking (see declaration of conformity)  To UK instructions for EMC  To UK Ront's instructions  Vibration resistance  Transport application test with severity level 1 as per FN 942017-4 and EMS 60068-2-6  Shock resistance  Shock test with severity level 1 as per FN 942017-5 and EN 60068-2-7  Corrosion resistance class (CRC)  O - No corrosion stress  Llass (PWIS) conformity  UMA23648 zone III  Cleanroom class  Class 9 according to ISO 14644-1  Storage temperature  20°C 60°C  Relative air humidity  O - 90 % Non-condensing  Degree of protection  Protection class  III  Ambient temperature  O *C 50°C  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 2% per K.  Max. torque Mx  Max. torque Mx  Max. torque Mx  Max. torque My  1.5 Nm  Max. torque My  1.5 Nm  Max. torque My  Ma	Power supply, type of connection	Plug
Fower supply, connection pattern  Certification  RCM compliance mark  KC Emarking (see declaration of conformity)  As per ELL BMC directive  As per ELL BMC directive  IRCA marking (see declaration of conformity)  As per ELL BMC directive  IRCA marking (see declaration of conformity)  IRCA mode consistence  Shock resistance  IRCA Shock resistance  Shock resistance  Shock resistance  IRCA Shock resistance  Shock resistance	Power supply, connection technology	M12x1, T-coded as per EN 61076-2-111
Certification         RCM compliance mark           KC Characters         KC EMC           CE marking (see declaration of conformity)         As per EU RMC directive           UKCA marking (see declaration of conformity)         To UK instructions for EMC           UKCA marking (see declaration of conformity)         To UK instructions for EMC           Vibration resistance         Transport application test with severity level 1 as per FN 942017-4 and EN 60068-2-27           Shock resistance         Shock kest with severity level 1 as per FN 942017-5 and EN 60068-2-27           Corrosion resistance class (CRC)         0 - No corrosion stress           LaBS (PWIS) conformity         VDMA2364 zone III           Clean room class         Class year of the Conformity           Clean room class         Class year of the Conformity           Degree of protection         IPAQ           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         1.5 Nm           Max. torque Mx         1.5 Nm           Max. roque My         1.5 Nm           Max. reged force Fx         150 N           Guide value for payload, horizontal         2	Power supply, number of pins/wires	4
KC characters KC Emarking (see declaration of conformity) As per EU EMC directive CWCA marking (see declaration of conformity) To UK instructions for EMC To UK RoHS instructions Vibration resistance Vibration resistance Shock resistance Shock resistance Shock resistance Corrosion resistance class (CRC) O - No corrosion stress CLABS (PMIS) conformity VDMA2-364 zone III CLABATOM CLAB	Power supply, connection pattern	00995989
EE marking (see declaration of conformity)  As per EU RMC directive As per EU RMS directive IUKCA 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 resistance  Shock test with severity level 1 as per FN 942017-5 and EN 60068-2-27  Corrosion resistance class (CRQ)  0 - No corrosion stress  Class (PWIS) conformity  VDMA24364 zone III  Cleanroom class  Class 9 according to ISO 14644-1  Storage temperature  - 2-0 °C 60 °C  Relative air humidity  0 - 90 % Non condensing  Degree of protection  PAD  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 78% per K.  Max. torque Mx  Max. torque Mx  Max. torque Mx  Max. and inforce on actuator shaft  75 N  Max. refed force FX  Guide value for payload, horizontal  Quide value for payload, horizontal  Additional moving mass at 0 mm stroke  Additional moving mass per 10 mm stroke  Noving mass at 0 mm stroke  Noving mass at 0 mm stroke  Noving in must specification  Noving in must specificat	Certification	RCM compliance mark
As per EU ROHS directive   UKCA marking (see declaration of conformity)	KC characters	KC EMC
To UK ROHS instructions   Transport application test with severity level 1 as per FN 942017-4 and RN 60068-2 e   Shock resistance	CE marking (see declaration of conformity)	
EM 60068-2-6 Shock resistance Shock resistance Shock 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	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  -20°C60°C  Relative air humidity  0 -90 % Non-condensing  Degree of protection  IP40  Protection class  III  Ambient temperature  0 °C50°C  Note on ambient temperature  Note on ambient temperature  Note on ambient temperature  Note on ambient temperature  Nax. torque Mx  Max. torque My  Max. torque My  1.5 Nm  Max. radial force on actuator shaft  75 N  Max. red force Fx  Guide value for payload, horizontal  Guide value for payload, horizontal  Guide value for payload, vertical  Moving mass at 0 mm stroke  Additional moving mass per 10 mm stroke  Additional weight per 10 mm stroke  Additional weight per 10 mm stroke  Number of digital logic outputs 24 V DC  Number of digital logic outputs 24 V DC  Number of digital logic input  Characteristics of logic input  Not-link®, prot class  A (OM3 (330.4 kBd)  Io-link®, protocol version  Device V 1.1  Device V 1.1  Pool V Communication mode  ON Not galvanically isolated  ON Not galvanically isolated  On-link®, protocol version  Device V 1.1  Class 9 according to 150 14644-1  Class 9 according to 150 1464-1  Class 9 according to 150 14644-1  Class 9 according to 150 1	Vibration resistance	
LABS (PWIS) conformity  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  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  Maintenance interval  Life-time lubrication  Moving mass at 0 mm stroke  Additional moving mass per 10 mm stroke  83 g  Additional moving mass per 10 mm stroke  818 g  Additional weight per 10 mm stroke  818 g  Additional weight per 10 mm stroke  10 gic input specification  Based on IEC 61131-2, type 1  Work range of logic inputs  Characteristics of logic input  Characteristics of logic input  Ves  Ol-Link®, protocol version  Device V 1.1  Ol-Link®, protocol version  Ol-Link®, protocol version  Ol-Link®, protocol version  Ol-Link®, prot class  A Ol-Communication mode  A Ol-Communication mode  Ol-Link®, port class	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 Mx  Max. torque My  1.5 Nm  Max. torque My  1.5 Nm  Max. torque Mz  1.5 Nm  Max. torque Mx  Iffe time lubrication  Woing 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  318 g  Additional weight per 10 mm stroke  32 d  Mounter 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&, prot class  A (Class 9 according to ISO 14644-1  10-Link&, prot class  A (Communication mode  OL-Link&, prot class  A (Class 9 cc oo °C  None of Communication mode  10 Evink V, prot class  A (Class 9 cc oo °C  O °C 50 °C  O °C	Corrosion resistance class (CRC)	0 - No corrosion stress
Storage temperature	LABS (PWIS) conformity	VDMA24364 zone III
Relative air humidity  Degree of protection  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  1.5 Nm  Max. torque My  1.5 Nm  Max. torque Mz  Above an attuator shaft  75 N  Max. feed force Fx  150 N  Guide value for payload, horizontal  Guide value for payload, horizontal  Moving mass at 0 mm stroke  Additional moving mass per 10 mm stroke  3.3 g  Product weight  Basic weight with 0 mm stroke  Additional weight per 10 mm stroke  A	Cleanroom class	Class 9 according to ISO 14644-1
Degree of protection   P40   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   1.5 Nm   Max. torque MZ   1.5 Nm   Max. radial force on actuator shaft   75 N   Max. red force Fx   150 N   Guide value for payload, horizontal   24 kg   Guide value for payload, vertical   12 kg   Maintenance interval   Life-time lubrication   Moving mass at 0 mm stroke   98 g   Additional moving mass per 10 mm stroke   98 g   Additional moving mass 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   24 V   Characteristics of logic input   24 V   Characteristics of logic input   Configurable   Not galvanically isolated   IO-Link®, protecol version   Device V 1.1   IO-Link®, protecol cass   A election   III	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 0Nm  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 24 kg  Guide value for payload, vertical 12 kg  Maintenance interval 16 Life-time lubrication 16 Moving mass at 0 mm stroke 98 g  Additional moving mass per 10 mm stroke 1818 g  Additional weight per 10 mm stroke 1818 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 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 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	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  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  24 kg  Guide value for payload, vertical  Moving mass at 0 mm stroke  Additional moving mass per 10 mm stroke  Additional weight per 10 mm stroke  818 g  Additional weight per 10 mm stroke  Number of digital logic outputs 24 V DC  Logic input Seed of logic input  Characteristics of logic input  Di-Link®, S10 mode support  Di-Link®, protocol version  Device V 1.1  O-Link®, port class  A down a mabient temperature of 30°C, the power must be reduced by 28°P mass at 0 mm stroke and 1.5 Nm  Above an ambient temperature of 30°C, the power must be reduced by 28°P ms  Logic input Specification  Device V 1.1  O-Link®, port class  A down a mabient temperature of 30°C, the power must be reduced by 28°P ms  Above an ambient temperature of 30°C, the power must be reduced by 28°P ms  Logic input Specification  Above an ambient temperature of 30°C, the power must be reduced by 28°P ms  Logic input Specification  Device V 1.1  O-Link®, port class  A communication mode  O-M3 (230.4 kBd)  In-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  0 Nm  Max. torque My  1.5 Nm  Max. torque Mz  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  24 kg  Guide value for payload, vertical  12 kg  Maintenance interval  Life-time lubrication  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  Number of digital logic outputs 24 V DC  2 lumber of digital logic inputs  24 V  Characteristics of logic input  Characteristics of logic input  Ves  Ol-Link®, S10 mode support  Ves  Ol-Link®, protocol version  Device V 1.1  Ol-Link®, port class  A Modern ambient temperature of 30°C, the power must be reduced by 28 per K.  Nmm  On Mm  On Mm  Above an ambient temperature of 30°C, the power must be reduced by 28 per K.  Nmm  On Mm  Above an ambient temperature of 30°C, the power must be reduced by 28 per K.  Nmm  Down  Above an ambient temperature of 30°C, the power must be reduced by 15 per K.  Nmm  Down  Anditional median temperature of 30°C, the power must be reduced by 15 per K.  Nmm  Down  Down  Above an mabient temperature of Nmm  1.5 Nm  Nmm  Above an median temperature of 30°C, the power must be reduced by 15 per K.  Nmm  Down	Protection class	III
Max. torque Mx Max. torque My Max. torque My Max. torque My Max. torque Mz Max. torque Mz Max. torque Mz Max. torque Mx Max. fed force Fx Max. fed force Fx Max. fed force Fx Moide value for payload, horizontal Moving mass at 0 mm stroke Moving mass at 0 mm stroke Moving mass at 0 mm stroke Moving mass pr 10 mm stroke Moving mass at 0 mm stroke Moving mass at 0 mm stroke Moving mass pr 10 mm stroke Moving mass mass mass mass mass mass mass mas	Ambient temperature	0 °C 50 °C
Max. torque My1.5 NmMax. torque Mz1.5 NmMax. radial force on actuator shaft75 NMax. feed force Fx150 NGuide value for payload, horizontal24 kgGuide value for payload, vertical12 kgMaintenance intervalLife-time lubricationMoving mass at 0 mm stroke98 gAdditional moving mass per 10 mm stroke3.3 gProduct weight1058 gBasic weight with 0 mm stroke818 gAdditional weight per 10 mm stroke24 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 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  75 N  Max. feed force Fx  150 N  Guide value for payload, horizontal  24 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  Mumber of digital logic outputs 24 V DC  Logic input specification  Work range of logic input  Characteristics of logic input  10-Link®, SIO mode support  10-Link®, port colass  1.5 Nm  15.5 Nm	Max. torque Mx	0 Nm
Max. radial force on actuator shaft75 NMax. feed force Fx150 NGuide value for payload, horizontal24 kgGuide value for payload, vertical12 kgMaintenance intervalLife-time lubricationMoving mass at 0 mm stroke98 gAdditional moving mass per 10 mm stroke3.3 gProduct weight1058 gBasic weight with 0 mm stroke818 gAdditional weight per 10 mm stroke24 gNumber of digital logic outputs 24 V DC2Logic 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	1.5 Nm
Max. feed force Fx Guide value for payload, horizontal Guide value for payload, vertical 12 kg Maintenance interval Moving mass at 0 mm stroke Additional moving mass per 10 mm stroke 1058 g 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 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 10-Link®, S10 mode support Ves 10-Link®, protocol version Device V 1.1 IO-Link®, port class A  150 N  24 kg  84 g  85 g  86 g  87 g  88 g  88 g  88 g  88 g  89 g  89 g  80 g  80 g  81 g  80 g  81 g  80 g  81 g  80 g	Max. torque Mz	1.5 Nm
Guide value for payload, vertical  Guide value for payload, vertical  Maintenance interval  Moving mass at 0 mm stroke  Moditional 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  Number of digital logic inputs  Logic input specification  Work range of logic input  Characteristics of logic input  OL-Link®, SIO mode support  D-Link®, protocol version  Inclink®, port class  Additional weight per 10 mm stroke  Additional weight with 0 mm stroke  Additional weight with 0 mm stroke  Additional weight with 0 mm stroke  Based on IEC 61131-2, type 1  Configurable Not galvanically isolated  Not galvanically isolated  COM3 (230.4 kBd)  Additional weight per 10 mm stroke  Based on IEC 61131-2, type 1  Configurable Not galvanically isolated  Configurable Not galvanically isolated  CoM3 (230.4 kBd)  Additional weight per 10 mm stroke  Additio	Max. radial force on actuator shaft	75 N
Guide value for payload, vertical  Maintenance interval  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  Characteristics of logic input  Configurable Not galvanically isolated  10-Link®, SIO mode support  Ves  10-Link®, communication mode  COM3 (230.4 kBd)  A	Max. feed force Fx	150 N
Maintenance interval  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  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  Work protocol version  10-Link®, protocol version  Device V 1.1  10-Link®, communication mode  COM3 (230.4 kBd)  IO-Link®, port class	Guide value for payload, horizontal	24 kg
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  A 818 g  A 98  A 9 9  A 9 8  A 9 9  A 9 8  A 9 9  A 9 9  A 9 9  A 9 8  A 9 9  A 9 8  A 9 9  A 9 9  A 9 8  A 9 9  A 9 9  A 9 8  A 9 9  A 9 8  A 9 9  A 9 8  A 9 9  A 9 8  A 9 9  A 9 9  A 9 8  A 9 9  A 9 9  A 9 8  A 9 9  A 9 9  A 9 8  A 9 9  A 9 8  A 9 9  A 9 8  A 9 9  A 9 9  A 9 8  A 9 9  A 9 9  A 9 8  A 9 9  A 9	Guide value for payload, vertical	12 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 24 V  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®, communication mode COM3 (230.4 kBd)  IO-Link®, port class	Maintenance interval	Life-time lubrication
Product weight Basic weight with 0 mm stroke Basic weight with 0 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 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	Moving mass at 0 mm stroke	98 g
Basic weight with 0 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  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)  A  Based on IEC 61131-2 type 1  Configurable Not galvanically isolated  Ves  IO-Link®, protocol version A	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  2  Logic input specification  Based on IEC 61131-2, type 1  Work range of logic input  Characteristics 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	Product weight	1058 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	818 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	Additional weight per 10 mm stroke	24 g
Logic input specification  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)  A	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  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  Cows  Cows  Cows  Cows  Cows  Cows  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 Device 1 bit State In 1 bit State Intermediate 1 bit State Move 1 bit State Out 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