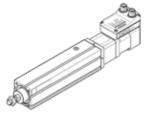
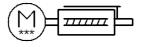
electric cylinder unit EPCS-BS-60-50-5P-A-ST-M-H1-PLK-AA Part number: 8118287

FESTO



Data sheet

| Feature | Value |
|---|---|
| Size | 60 |
| Stroke | 50 mm |
| Stroke reserve | 0 mm |
| Piston rod thread | M12x1,25 |
| Reversing backlash | 100 µm |
| Spindle diameter | 12 mm |
| Spindle pitch | 5 mm/U |
| Max. angular deflection of piston rod +/- | 1 deg |
| Assembly position | Any |
| Piston-rod end | Male thread |
| Motor type | Stepper motor |
| Design structure | Electric cylinder |
| 6 | With ball screw |
| | with integrated drive |
| Spindle type | Ball screw |
| Protection against torque/guide | with plain-bearing guide |
| Referencing | Fixed stop block positive |
| | Fixed stop block negative |
| | Reference switch |
| Rotor position sensor | Absolute single turn encoder |
| Rotary position encoder measuring principle | Magnetic |
| Temperature monitoring | Shutdown at over-temperature |
| remperature monitoring | Integrated precise CMOS temperature sensor with analogue output |
| Additional functions | User interface |
| | Integrated end-position sensing |
| Display | LED |
| Ready status display | LED |
| Max. acceleration | 1.5 m/s2 |
| Max. speed | 0.09 m/s |
| Speed "Speed press" | 0.01 m/s |
| Repetition accuracy | ±0,02 mm |
| Digital logic output characteristics | configurable |
| Distantosic output characteristics | Not electrically isolated |
| Duty cycle | 100 % |
| Insulation protection class | B |
| Max. current, digital logic outputs | 100 mA |
| Max. current consumption | 5.3 A |
| Max. current consumption | 0.3 A |
| Nominal voltage DC | 24 V |
| Nominal current | 5.3 A |
| Parameters configuring interface | IO-Link |
| | User interface |
| Rotor position encoder resolution | 16 Bit |
| Permissible voltage fluctuation | +/- 15 % |
| Power supply, type of connection | +/-15 % Plug |
| Power supply, type of connection Power supply, connection technology | |
| Power supply, connection technology | M12x1, T-coded as per EN 61076-2-111 |



FESTO

| Crask KC-EW E Symbol (see declaration of conformity) in according to EU-EW guideline In according to EU-EW guideline in accordance with EU ROHS directive KKA marking (see declaration of conformity) To UK ROHS instructions Thration resistance Transport application test with severity level 1 as per FN 942017-4 and EN 40066-2-2 Abock resistance Shock test with severity level 1 in accordance with FN 942017-5 and EN 40066-2-2 Gronsol resistance classification CRC 0. No corrosion stress Wits conformity VDMA22364 cone III Bearcon class ISO class 9 Gronsol resistance 2060 °C Visconterrul 090 % mon-condensing 1060 °C Totaction class IFA0 adarty class III moleon temperature 050 °C date on ambient temperature of 30 °C, the power must be reduced by 2% per K. dax. torque M 0 Mm dax. torque MA 0 Mm datterance first 900 N teleterence value for working load, wetcal <th>Feature</th> <th>Value</th> | Feature | Value |
|--|--|---|
| Withortarium RCM Wark C mark KCE KaW I S mak CE W I S mak CE MW I S mak CE EW I S mak CE IN USA spectrum I S mak Restance I C U Kinstructions for EWC Transport application test with severity level 1 as per FN 942017-4 and EW 60068-2-6 Mode Sector Shock test with severity level 1 as per FN 942017-5 and EW 60068-2-6 Mission Construm YMA2364 zone III Shock test with severity level 1 in accordance with PN 942017-5 and EW 60068-2-6 Shock test with severity level 1 in accordance with PN 942017-5 and EW 60068-2-6 Shock test with severity level 1 in accordance with PN 942017-9 and EW 60068-2-6 Shock test with severity level 1 in accordance with PN 942017-9 and EW 60068-2-6 Shock test with severity level 1 in accordance with PN 942017-9 and EW 60068-2-6 Shock test with severity level 1 in accordance with PN 942017-9 and EW 60068-2-6 Shock test with severity level 1 in accordance with PN 942017-9 and EW 60068-2-6 Shock test with severity level 1 in accordance with PN 942017-9 and EW 60068-2-6 Shock test with severity level 1 in accordance with PN 942017-9 and EW 60068-2-6 Shock test with severity level 1 in accordance with PN 942017-9 and EW 60068-2-6 | Power supply, number of pins/wires | 4 |
| C mark KC-EW E symbol (see declaration of conformity) accordant to EU-EW guideline inaccordance with EU RoHS directive IKCA marking (see declaration of conformity) To UK Ristructions of KC EW (instructions for EW To UK ROHS instructions To UK ROHS instructions To UK ROHS instructions inhation resistance Shock test vitils servity level 1 as per RN 942017.4 and EW 60063-2.6 sitock resistance classification CRC 0 No corresion stress isocator and the trapper ature -0 - 60 °C icotator and the trapper ature -0 - 50 °C icotator and trapper ature -0 - 50 °C icotatore ature there ature ature ature ature ature ature ature ature atur | Authorization | RCM Mark |
| in accordance with EU Rolfs directive in accordance with EU Rolfs directive in accordance with EU Rolfs directive in the instructions for FMC To UK Rolfs instructions in the instructions in the instructions in the instructions in the instructions index resistance incover and instructions incover | KC mark | |
| in accordance with EU Rolfs directive in accordance with EU Rolfs directive in accordance with EU Rolfs directive in the instructions for FMC To UK Rolfs instructions in the instructions in the instructions in the instructions in the instructions index resistance incover and instructions incover | CE symbol (see declaration of conformity) | according to EU-EMV guideline |
| To UK RONS instructions Transport application test with severity level 1 as por FM 942017-4 and FM 60068-2-6 Shock resistance shock resistance soorsion resistance classification CRC O No corrosion stress Stock for with severity level 1 in accordance with FN 942017-5 and EN 60068-2-72 Storsion resistance classification CRC O No corrosion stress Storage temperature 12060 °C Intermediate 1 humidity O - 90 % non-condensing Vestion class Bill Notes Storage temperature Ide on ambient temperature | | |
| To UK RONS instructions Transport application test with severity level 1 as por FM 942017-4 and FM 60068-2-6 Shock resistance shock resistance soorsion resistance classification CRC O No corrosion stress Stock for with severity level 1 in accordance with FN 942017-5 and EN 60068-2-72 Storsion resistance classification CRC O No corrosion stress Storage temperature 12060 °C Intermediate 1 humidity O - 90 % non-condensing Vestion class Bill Notes Storage temperature Ide on ambient temperature | UKCA marking (see declaration of conformity) | |
| EN 6068-3-6 Shock testification CRC 0.0068-2/2 corrision resistance classification CRC 0.00 corrosion stress WIS contramity VDMA2364 zone III Leannoom classi ISO class 9 storage temperature 2060 °C consortion resistance classification CRC 0.90 % teative air humidity 0.90 % totage temperature 2060 °C totage temperature 050 °C totage temperature 050 °C totage temperature 050 °C totage temperature 050 °C dax. torque My 6.4 Mm Aax. torque MA 00M abs. torque My 6.4 Mm Aax. torque My <td< td=""><td></td><td>To UK RoHS instructions</td></td<> | | To UK RoHS instructions |
| EN 6068-3-6 Shock testification CRC 0.0068-2/2 corrision resistance classification CRC 0.00 corrosion stress WIS contramity VDMA2364 zone III Leannoom classi ISO class 9 storage temperature 2060 °C consortion resistance classification CRC 0.90 % teative air humidity 0.90 % totage temperature 2060 °C totage temperature 050 °C totage temperature 050 °C totage temperature 050 °C totage temperature 050 °C dax. torque My 6.4 Mm Aax. torque MA 00M abs. torque My 6.4 Mm Aax. torque My <td< td=""><td>Vibration resistance</td><td>Transport application test with severity level 1 as per FN 942017-4 and</td></td<> | Vibration resistance | Transport application test with severity level 1 as per FN 942017-4 and |
| orosion resistance classification CRC0. No concosion strassWIS conformityVDMA24364 zone IIIleannoon class150 class 9storage temperature20 60 °Cclassification class0 90 %non-condensing0 90 %rotection classIIIadditional statistication classIIIstept classIIIstept classIIIstept classIIIstept class0 90 °Cada. torque MAO.Manada. torque MAOAMada. torque MA6.4 Mmada. torque MA6.4 Mm <td></td> <td></td> | | |
| orosion resistance classification CRC0. No concosion strassWIS conformityVDMA24364 zone IIIleannoon class150 class 9storage temperature20 60 °Cclassification class0 90 %non-condensing0 90 %rotection classIIIadditional statistication classIIIstept classIIIstept classIIIstept classIIIstept class0 90 °Cada. torque MAO.Manada. torque MAOAMada. torque MA6.4 Mmada. torque MA6.4 Mm <td>Shock resistance</td> <td>Shock test with severity level 1 in accordance with FN 942017-5 and EN</td> | Shock resistance | Shock test with severity level 1 in accordance with FN 942017-5 and EN |
| WWS conformity VDMA2464 zone III leamoon class ISO class 9 torage temperature 20 60 °C claitive at humidity 0 - 90 % ion condensing III white class IPA0 attry class III white itemperature 0 50 °C doe on ambient temperature Above an ambient temperature of 30 °C, the power must be reduced by 28 per K. Asa. torque MX 0 Hm Asa. torque MX 0 Hm Asa. torque MX 6.4 Nm Asa. radial force at drive shaft 230 N Asa. redial force fX 900 N teference value for working load, vertical 46 kg Altinemance interval Life. Hime lubrication dowing mass with 0 mm stroke 205 g dolitional weight for 0 mm stroke 69 g unmber of light logic loguts 2 apecification, | | |
| Ideamoon dass ISO class 9 isorage temperature -2060°C isorage temperature -2060°C votection class IP40 safety class III molection class III or on ambient temperature 050°C dote on ambient temperature 050°C dote on ambient temperature 050°C dax. torque Mx 0 Nm dax. torque Mx 0 Nm dax. torque My 6.4 Nm dax. torque Max 6.4 Nm dax. torque Max 6.4 Nm dax. torque Max 6.4 Nm dax. feed force FA 900 N reference value for working load, horizontal 120 kg teference value for working load, vertical 46 kg dational mass factor per 10 mm of stroke 305 g odditional mass factor per 10 mm of stroke 2.29 kg dditional mass factor per 10 mm of stroke 6.2 g roduct weight 2.363 g dasic weight for 0 mm stroke 2.29 kg dditional mass factor per 10 mm of stroke 2.29 kg dditional mass factor per 10 mm of stroke 2.29 kg dditional mass factor per 10 mm of stroke 2.29 kg orduct weight 2.363 g dasic weight for 0 mm stroke </td <td>Corrosion resistance classification CRC</td> <td>0 - No corrosion stress</td> | Corrosion resistance classification CRC | 0 - No corrosion stress |
| inarge temperature 2060 °C telative air humidity 090 % inon condensing inon condensing totetion class IPA0 astety class III mibient temperature 050 °C dote on ambient temperature of 30 °C, the power must be reduced by 2% per K. Aax. torque Mx 0 Nm Aax. torque Mx 6.4 Nm Aax. torque Mx 6.4 Nm Aax. torque Mx 6.4 Nm Aax. forque for orwring load, horizontal Life time lubrication Aboing associaction of time for a drine shaft< | PWIS conformity | VDMA24364 zone III |
| relative air humidity 0 90 %, non condensing rotection class III afety class III nombient temperature 050 °C dote on ambient temperature 050 °C dote an ambient temperature 050 °C dax. torque Mx 0 Nm dax. torque My 6.4 Nm dax. feed force F. 900 N reference value for working load, horizontal 120 kg reference value for working load, vertical 46 kg daittenance interval Uife time lubrication dowing mass with 0 mm stroke 305 g diditional mass factor per 10 mm of stroke 5.2 g diditional mass factor per 10 mm of stroke 5.9 g goic input working range 2.4 V ogic input working range 2 V ogic input working range 2 V <td>Cleanroom class</td> <td>ISO class 9</td> | Cleanroom class | ISO class 9 |
| Inne-condensing rotection class IIP40 rotection class III unbient temperature 050 °C obse on ambient temperature of 30 °C, the power must be reduced by 2% per K. D Nm Aax. torque Mx 0 Nm Aax. torque Mx 6.4 Nm Aax. rotque My 6.4 Nm Aax. rotque Max 6.4 Nm Aax. rotque for working load, horizontal 100 kg reference value for working load, vertical 46 kg Alaintenance interval 100 kg voing mass with 0 mm stroke 305 g Stactor per 10 mm of stroke 6.5 g Voind weight per 10 mm stroke 2.292 kg Void tiotalis logic inputs 2 Varmber of digital logic inputs 2 Varthore of digital logic inputs 2 Varthore of digital logic inputs | Storage temperature | -20 60 °C |
| Pa0 iafety class III iafety class III objent temperature 0 50 °C Abx. strongue Mx 0 Nm Aax. torque My 6.4 Nm Aax. torque Mz 6.4 Nm Aax. feed force Fx 900 N Batemane Interval 120 kg teference value for working load, horizontal 120 kg teference value for working load, vertical 46 kg Abartenance Interval Life-time lubrication doitional mass factor per 10 mm of stroke 6.5 g roduct weight 2.639 g diational mass factor per 10 mm stroke 69 g Jumber of digital logic input Based on IEC 61131-2, type 1 ogic input Aracteristics Configurable ogic input Aracteristics Configurable O-Link, protocol Device V 1.1 O-Link, communication mode COM3 (23.0.4 kbd) O-Link, protocol Device V 1.1 O-Link, protoces dat | Relative air humidity | 0 - 90 % |
| Pa0 iafety class III iafety class III objent temperature 0 50 °C Abx. strongue Mx 0 Nm Aax. torque My 6.4 Nm Aax. torque Mz 6.4 Nm Aax. feed force Fx 900 N Batemane Interval 120 kg teference value for working load, horizontal 120 kg teference value for working load, vertical 46 kg Abartenance Interval Life-time lubrication doitional mass factor per 10 mm of stroke 6.5 g roduct weight 2.639 g diational mass factor per 10 mm stroke 69 g Jumber of digital logic input Based on IEC 61131-2, type 1 ogic input Aracteristics Configurable ogic input Aracteristics Configurable O-Link, protocol Device V 1.1 O-Link, communication mode COM3 (23.0.4 kbd) O-Link, protocol Device V 1.1 O-Link, protoces dat | | non-condensing |
| ambient temperature 0 50 °C kote on ambient temperature Above an ambient temperature of 30 °C, the power must be reduced by 28 per K. 0 Nm Aax. torque Mx 0 Nm Aax. torque My 6.4 Nm Aax. torque Mx 6.4 Nm Aax. torque Mx 6.4 Nm Aax. torque Mz 6.4 Nm Aax. torque Mz 6.4 Nm Aax. torque for working load, horizontal 120 kg teference value for working load, horizontal 110 kg teference value for working load, vertical 46 kg Aduitonal mass factor per 10 nm of stroke 305 g dditional mass factor per 10 nm of stroke 6.5 g voidutional mass factor per 10 nm stroke 6.9 g umber of digital logic inputs 2 ogic input Amstroke 2.924 g dditional wass factor per 10 nm stroke 69 g umber of digital logic inputs 2 ogic input Amstroke 24 V O-Link, SIO mode support Yes D-Link, communication mode COM3 (23.0.4 kdd) D-Link, protocol Device Y 1.1 D-Link, protocs A D-Link, process data width N 2 Byte D-Link, process data width N 2 Byte D-Link, process data content IN <t< td=""><td>Protection class</td><td></td></t<> | Protection class | |
| late on ambient temperature Above an ambient temperature of 30 °C, the power must be reduced by 2% per K. lax. torque Mx O Nm Aax. torque My 6.4 Mm Aax. cardial force at drive shaft 230 N Aax. facta force Tx 900 N Efference value for working load, horizontal 120 kg Efference value for working load, horizontal 120 kg Efference value for working load, vertical 46 kg Alantenance interval Life-time lubrication Avoing mass with 0 mm stroke 305 g Voiduct weight 2.639 g Basic weight for 0 mm stroke 69 g Umber of Jourd Defigital logic inputs 2 ajci input working range 24 V ogic input working range 24 V oblink, SIO mode support Yes 0-Link, portoces 10 D-Link, portoces data width OUT 2 Byte O-Link, process data content IN 2 Byte O-Link, process data content IN State In 1 bit Move in 1 bit | Safety class | |
| by 2% per K.Aax. torque Mx0 NmAax. torque My6.4 NmAax. tradial force at drive shaft230 NAax. kadial force at drive shaft230 NAax. Keed force Fx900 NBeference value for working load, horizontal120 kgEeference value for working load, vertical46 kgAaintenance intervalLife-time lubricationAoving mass with 0 mm stroke65 gdiditional mass factor per 10 mm of stroke65 gYoduct weight2.639 gVacut weight per 10 mm stroke69 gdiditional mass factor per 10 mm stroke69 gdiditional mass factor per 10 mm stroke69 gdiditional mass factor per 10 mm stroke69 gvacut weight per 10 mm stroke69 gtumber of digital logic outputs2gic input onking range24 Vogic input characteristicsconfigurablehord e supportYesO-Link, procolDevice V 1.1O-Link, procosAO-Link, proces data width OUT2 ByteO-Link, process data content IN2 ByteO-Link, process data content INState Out 1 bitO-Link, process data content IN2 ByteO-Link, process data content IN2 ByteState Dovici 1 bitState | Ambient temperature | 0 50 °C |
| Aax. torque My 6.4 Nm Aax. torque My 6.4 Nm Aax. torque Mz 6.4 Nm Aax. redial force at drive shaft 230 N Aax. freed force FX 900 N Eeference value for working load, horizontal 120 kg Eeference value for working load, vertical 46 kg Anitenance interval 10 feetime lubrication Aoving mass with 0 mm stroke 305 g Additional mass factor per 10 mm of stroke 6.5 g Yoduct weight 2.639 g Jasic weight for 0 mm stroke 2.924 g Vold tigital logic outputs 2 Jumber of 24 V DC digital logic outputs 2 Jumber of digital logic input Based on IEC 61131-2, type 1 ogic input working range 24 V ogic input working range 24 V O-Link, soft mode support Yes O-Link, protocol Device V 1.1 O-Link, port type A O-Link, process data width OUT 2 Byte O-Link, process data content IN State Out 1 bit Move in 1 bit State Out 1 bit O-Link, process data content IN State Intermediate 1 bit <td>Note on ambient temperature</td> <td>Above an ambient temperature of 30 °C, the power must be reduced</td> | Note on ambient temperature | Above an ambient temperature of 30 °C, the power must be reduced |
| Aax. torque My 6.4 Nm Aax. rodrigue M2 6.4 Nm Aax. rodrig force at drive shaft 230 N Aax. feed force F x 900 N teference value for working load, vertical 46 kg Aaintenance interval Life-time lubrication Aoving mass with 0 mm stroke 305 g Additional mass factor per 10 mm of stroke 6.5 g Additional mass factor per 10 mm of stroke 6.7 g Additional weight per 10 mm stroke 2.294 g Additional weight per 10 mm stroke 2.294 g Additional weight per 10 mm stroke 2 Specification, logic input 2 Agic coupt of 2 V DC digital logic outputs 2 Umber of 2 V DC digital logic outputs 2 Opic finput characteristics configurable Not electrically isolated 004 V O-Link, protocol Device V 1.1 O-Link, protocol Device V 1.1 O-Link, protocol Device V 1.1 O-Link, protocol 10 O-Link, protocol Device V 1.1 O-Link, protocol Device V 1.1 O-Link, protocol 10 O-Link, protoces data width OUT 2 Byte O-Link, process data width IN 2 Byte O-Link, process data content IN State | | by 2% per K. |
| Aax. torque Mz 6.4 Nm Aax. Icadia force at drive shaft 230 N Aax. feed force Fx 900 N teference value for working load, horizontal 120 kg Iterefrence value for working load, vertical 46 kg Anitnennce interval Life-time lubrication Admitennce interval 05 g Idatineance interval 6.5 g Yoduxt weight 2.639 g tasic weight for 0 mm stroke 6.9 g taumber of 2 VD Gigital logic outputs 2 taumber of digital logic inputs 2 ogic input working range 24 V oblik, protocol Device V 1.1 O-Link, protocol Device V 1.1 O-Link, protocol Device V 1.1 O-Link, process data width OUT 2 Byte O-Link, process data width IN 2 Byte O-Link, process data content IN State Out 1 bit Move out 1 bit Move Intermediate 1 bit O-Link, process data content IN State Intermediate 1 bit < | Max. torque Mx | 0 Nm |
| Aax. radial force at drive shaft 230 N Aax. Red force Fx 900 N Iax. Keed force Fx 900 N Reference value for working load, vertical 46 kg Aaintenance interval Life-time lubrication Adving mass with 0 mm stroke 305 g Vidditional mass factor per 10 mm of stroke 6.5 g Vidditional weight 2,639 g asic weight for 0 nm stroke 69 g Jaumber of Z4 VD digital logic outputs 2 Umber of digital logic input Based on IEC 61131-2, type 1 ogic input faracteristics configurable Oclink, protocol Device V 1.1 O-Link, soft on mode COM3 (230.4 kbd) O-Link, process data width IN 2 Byte O-Link, process data content IN State Out 1 bit Move In 1 bit State Out 1 bit State Out 1 bit | Max. torque My | 6.4 Nm |
| Aax. Feed force Fx 900 N beference value for working load, horizontal 120 kg beference value for working load, vertical 46 kg Aaintenance interval Life-time lubrication Adving mass with 0 mm stroke 305 g viditional mass factor per 10 mm of stroke 6.5 g broduct weight 2,639 g roduct weight 2,294 g viditional mass factor per 10 mm stroke 69 g ubre of 24 V DC digital logic outputs 2 Jumber of Z4 V DC digital logic outputs 2 ubre of digital logic input Based on IEC 61131-2, type 1 ogic input working range 24 V ogic input working range 24 V 0-Link, SIO mode support Yes 0-Link, sommunication mode COM3 (230.4 kbd) 0-Link, number of ports 1 0-Link, process data width OUT 2 Byte 0-Link, process data content OUT Move in 1 bit 0-Link, process data content IN State In 1 bit State Out 1 bit State Out 1 bit <t< td=""><td>Max. torque Mz</td><td>6.4 Nm</td></t<> | Max. torque Mz | 6.4 Nm |
| teference value for working load, horizontal 120 kg teference value for working load, vertical 46 kg Aaintenance interval Uife-time lubrication Aoving mass with 0 mm stroke 305 g Additional mass factor per 10 mm of stroke 6.5 g Product weight 2,639 g asiac weight for 0 nm stroke 69 g Umber of digital logic outputs 2 Jumber of digital logic input Based on IEC 61131-2, type 1 ogic input working range 24 V ogic input characteristics configurable Not electrically isolated 0-Link, protocol D-Link, protocol Device V 1.1 O-Link, process data width OUT 2 Byte O-Link, process data content IN 2 bit Force 32 bit Position 32 bit Force | Max. radial force at drive shaft | 230 N |
| teference value for working load, vertical 46 kg Jaintenance interval Life-time lubrication Joving mass with 0 mm stroke 305 g vaditional mass factor per 10 mm of stroke 6.5 g Yoduct weight 2,393 g vasies weight for 0 mm stroke 2,294 g vaditional weight per 10 mm stroke 69 g umber of 24 V DC digital logic outputs 2 umber of digital logic input Based on IEC 61131-2, type 1 ogic input working range 24 V ogic input working range 24 V ogic input working range 24 V ogic much characteristics configurable Not electrically isolated 0-link, protocol 0-link, port type A 0-link, port type A 0-link, port ports 1 0-link, process data width OUT 2 Byte 0-link, process data width IN 2 Byte 0-link, process data content IN State In 1 bit State Out 1 bit State Out 1 bit Move 1 bit State Out 1 bit State Out 1 bit State Out 1 bit State Out 1 bit State Out 1 bit < | Max. feed force Fx | 900 N |
| Aaintenance interval Life-time lubrication Javing mass with 0 mm stroke 305 g Viditional mass factor ppr 10 mm of stroke 6.5 g Yoduct weight 2,639 g Jasic weight for 0 mm stroke 2,94 g viditional mass factor pr 10 mm stroke 69 g Jumber of 24 V DC digital logic outputs 2 Jumber of 24 V DC digital logic outputs 2 ogic input working range 24 V ogic input working range 24 V ogic input working range 24 V O-Link, SIO mode support Yes O-Link, protocol Device V 1.1 O-Link, ports 1 O-Link, protocol Device V 1.1 O-Link, ports 1 O-Link, process data width OUT 2 Byte O-Link, process data width IN 2 Byte O-Link, process data content UN State In 1 bit State In 1 bit State In 1 bit Move In 1 bit State In 1 bit State In 1 bit State In 1 bit | Reference value for working load, horizontal | 120 kg |
| Adving mass with 0 mm stroke 305 g vidditional mass factor per 10 mm of stroke 6.5 g vroduct weight 2,639 g asic weight for 0 mm stroke 2,294 g vidditional weight per 10 mm stroke 69 g umber of 24 V DC digital logic outputs 2 gecification, logic input Based on IEC 61131-2, type 1 ogic input working range 24 V ogic input tharacteristics configurable 0-Link, protocol Device V 1.1 0-Link, process data width OUT 2 Byte 0-Link, process data content OUT Move in 1 bit Move out 1 bit Quit Error 1 bit Move Intermediate 1 bit State Move 1 bit 0-Link, process data content IN State In 1 bit State Move 1 bit State Move 1 bit State Move 1 bit State Move 1 bit State Out 1 bit State Move 1 bit State Move 1 bit State | Reference value for working load, vertical | 46 kg |
| vdditional mass factor per 10 mm of stroke 6.5 g voduct weight 2.639 g vasic weight for 0 mm stroke 2.294 g dditional weight per 10 mm stroke 69 g Jumber of 24 V DC digital logic outputs 2 lumber of digital logic inputs 2 ogic input not stroke 24 V ogic input working range 24 V ogic input torking range 24 V ogic input stroke 0.100 (2004) 0-Link, SIO mode support Yees 0-Link, protocol Device V 1.1 0-Link, process data width OUT 2 Byte 0-Link, process data width OUT 2 Byte 0-Link, process data content OUT Move in 1 bit Move our 1 bit Quit Error 1 bit Move our 1 bit State In 1 bit 0-Link, process data content IN State In 1 bit State Our 1 bit State Our 1 bit Move 1 bit State Our 1 bit 0-Link, process data content IN State In 1 bit State Our 1 | Maintenance interval | Life-time lubrication |
| Product weight 2,639 g asaic weight for 0 mm stroke 2,294 g validitional weight per 10 mm stroke 69 g Jumber of 24 V DC digital logic outputs 2 Jumber of 24 V DC digital logic outputs 2 Jumber of 24 V DC digital logic outputs 2 Jumber of Joint Working range 24 V ogic input working range 24 V ogic input characteristics configurable Not electrically isolated O-Link, SIO mode support Yes O-Link, protocol Device V 1.1 O-Link, protocol Device V 1.1 O-Link, port type A O-Link, port ports 1 O-Link, porcess data width OUT 2 Byte O-Link, process data content OUT Move in 1 bit Move in 1 bit Move out 1 bit Quit Error 1 bit Move Intermediate 1 bit O-Link, process data content IN State In 1 bit State Move 1 bit State Out 1 bit State Out 1 bit State Device 1 bit State Device 1 bit O-Link, Service data contents IN 32 bit Foree 32 bit Foresit 32 bit Foresit 32 bit Speed 32 bit Speed | Moving mass with 0 mm stroke | 305 g |
| basic weight for 0 mm stroke 2,294 g vidditional weight per 10 mm stroke 69 g lumber of 24 V DC digital logic outputs 2 sipecification, logic input Based on IEC 61131-2, type 1 ogic input working range 24 V ogic input torkaracteristics configurable Not electrically isolated 0-Link, SIO mode support Yes 0-Link, protocol Device V 1.1 0-Link, port type A 0-Link, port type A 0-Link, process data width OUT 2 Byte 0-Link, process data content IN State In 1 bit 0-Link, process data content IN State In 1 bit 0-Link, process data content IN State In 1 bit 0-Link, process data content IN State In 1 bit 0-Link, process data content IN State In 1 bit 0-Link, process data content IN State In 1 bit 0-Link, process data content IN State In 1 bit 0-Link, process data content IN State In 1 bit 0-Link, process data content IN State In 1 bit 0-Link, process data content IN State In 1 bit 0-Link, process data contents IN 32 bit Forcre | Additional mass factor per 10 mm of stroke | 6.5 g |
| vadditional weight per 10 mm stroke 69 g Jumber of 24 V DC digital logic outputs 2 Jumber of digital logic inputs 2 Jumber of digital logic inputs 2 ogic input working range 24 V ogic input characteristics configurable Not electrically isolated Not electrically isolated 0-Link, SIO mode support Yes 0-Link, protocol Device V 1.1 0-Link, protocol Device V 1.1 0-Link, port type A 0-Link, port so 1 0-Link, process data width OUT 2 Byte 0-Link, process data content OUT Move in 1 bit Move out 1 bit Quit Error 1 bit Move Intermediate 1 bit State In 1 bit 0-Link, process data content IN 2 Byte 0-Link, process data content IN State In 1 bit 0-Link, process data content IN 2 Byte 0-Link, Service data contents IN 32 bit Force 32 bit Position 32 bit Position 32 bit Position 32 bit Speed | Product weight | 2,639 g |
| Jumber of 24 V DC digital logic outputs 2 Jumber of digital logic inputs 2 Sipecification, logic input Based on IEC 61131-2, type 1 ogic input working range 24 V ogic input characteristics configurable O-Link, protocol Device V 1.1 O-Link, protocol Device V 1.1 O-Link, communication mode COM3 (230.4 kbd) O-Link, prot type A O-Link, protess data width OUT 2 Byte O-Link, process data content OUT Move in 1 bit Move out 1 bit Quit Error 1 bit Move Intermediate 1 bit State Out 1 bit O-Link, process data content IN State Out 1 bit O-Link, process data content IN 3 bit Force O-Link, Service data contents IN 32 bit Force O-Link, Service data contents IN 32 bit Speed | Basic weight for 0 mm stroke | 2,294 g |
| Jumber of digital logic input 2 specification, logic input Based on IEC 61131-2, type 1 ogic input working range 24 V ogic input characteristics configurable Not electrically isolated Not electrically isolated O-Link, SIO mode support Yes O-Link, protocol Device V 1.1 O-Link, protocol COM3 (230.4 kbd) O-Link, protocol A O-Link, protocol state width OUT 2 Byte O-Link, process data width OUT 2 Byte O-Link, process data content OUT Move in 1 bit Move out 1 bit Quit Error 1 bit Move Intermediate 1 bit State In 1 bit O-Link, process data content IN State In bit State In bit State In bit State In bit State In bit State Int bit State Intermediate 1 bit O-Link, Service data contents IN 32 bit Force 32 bit Force 32 bit Force 32 bit Speed State Intermediate 1 bit | Additional weight per 10 mm stroke | 69 g |
| specification, logic input Based on IEC 61131-2, type 1 ogic input working range 24 V ogic input characteristics configurable 0-Link, SIO mode support Yes 0-Link, protocol Device V 1.1 0-Link, port type A 0-Link, port type A 0-Link, port type 1 0-Link, process data width OUT 2 Byte 0-Link, process data content OUT Move in 1 bit Move out 1 bit Quit Error 1 bit Move Intermediate 1 bit State In 1 bit 0-Link, process data content IN State In 1 bit 0-Link, Service data contents IN 32 bit Force 0-Link, Service data contents IN 32 bit Force 32 bit Speed 32 bit Speed | | 2 |
| ogic input working range 24 V ogic input characteristics configurable Not electrically isolated O-Link, SIO mode support Yes O-Link, protocol Device V 1.1 O-Link, communication mode COM3 (23.0.4 kbd) O-Link, communication mode COM3 (23.0.4 kbd) O-Link, communication mode A O-Link, number of ports 1 O-Link, process data width OUT 2 Byte O-Link, process data content OUT Move in 1 bit Move out 1 bit Quit Error 1 bit Move lntermediate 1 bit O-Link, process data content IN State In 1 bit State Out 1 bit State Out 1 bit State Device 1 bit State Device 1 bit O-Link, Service data contents IN 32 bit Force 32 bit Position 32 bit Speed | | 2 |
| ogic input characteristics configurable Not electrically isolated Not electrically isolated 0-Link, protocol Device V 1.1 0-Link, communication mode COM3 (230.4 kbd) 0-Link, nomber of ports A 0-Link, process data width OUT 2 Byte 0-Link, process data content OUT Move in 1 bit Move out 1 bit Quiterror 1 bit Move literror 1 bit Move literror 1 bit 0-Link, process data content IN State In 1 bit 0-Link, process data content IN State In 1 bit 0-Link, process data content IN State In 1 bit 0-Link, process data content IN State In 2 bit 0-Link, process data content IN State In 2 bit 0-Link, process data content IN State In 2 bit 0-Link, process data content IN State In 2 bit 0-Link, Service data contents IN 32 bit Force 32 bit Speed 32 bit Speed | | |
| Not electrically isolated O-Link, SIO mode support Yes O-Link, protocol Device V 1.1 O-Link, communication mode COM3 (230.4 kbd) O-Link, port type A O-Link, protocol 1 O-Link, number of ports 1 O-Link, process data width OUT 2 Byte O-Link, process data content OUT Move in 1 bit Move out 1 bit Quit Error 1 bit Move Intermediate 1 bit 2 Byte O-Link, process data content IN State In 1 bit State Move 1 bit State Out 1 bit State Move 1 bit State Move 1 bit O-Link, process data content IN State In 1 bit State Move 1 bit State Move 1 bit State Move 1 bit State Move 1 bit State Out 1 bit State Move 1 bit State Move 1 bit State Move 1 bit State Move 1 bit State Intermediate 1 bit O-Link, Service data contents IN 32 bit Force 32 bit Position 32 bit Speed | Logic input working range | |
| O-Link, SIO mode support Yes O-Link, protocol Device V 1.1 O-Link, communication mode COM3 (230.4 kbd) O-Link, prot type A O-Link, number of ports 1 O-Link, process data width OUT 2 Byte O-Link, process data content OUT Move in 1 bit Move out 1 bit Quit Error 1 bit Move Intermediate 1 bit 2 Byte O-Link, process data content IN 2 Byte O-Link, process data content IN State In 1 bit State Out 1 bit State Out 1 bit Move Intermediate 1 bit State In 1 bit State Out 1 bit State Out 1 bit O-Link, process data content IN State In 1 bit State Out 1 bit State Out 1 bit State Out 1 bit State Out 1 bit State Out 1 bit State Out 1 bit State Move 1 bit State Out 1 bit State Intermediate 1 bit State Intermediate 1 bit O-Link, Service data contents IN 32 bit Force 32 bit Force 32 bit Force 32 bit Speed State Out 1 bit | Logic input characteristics | |
| O-Link, protocol Device V 1.1 O-Link, communication mode COM3 (230.4 kbd) O-Link, port type A O-Link, number of ports 1 O-Link, process data width OUT 2 Byte O-Link, process data content OUT Move in 1 bit Move out 1 bit Quit Error 1 bit Move Intermediate 1 bit 2 Byte O-Link, process data width IN 2 Byte O-Link, process data content IN State In 1 bit State In 1 bit State Intermediate 1 bit O-Link, Service data contents IN 32 bit Force 32 bit Speed 32 bit Speed | | · · · · · · · · · · · · · · · · · · · |
| O-Link, communication mode COM3 (230.4 kbd) O-Link, port type A O-Link, number of ports 1 O-Link, process data width OUT 2 Byte O-Link, process data content OUT Move in 1 bit Move out 1 bit Quit Error 1 bit Move Intermediate 1 bit O-Link, process data width IN O-Link, process data content IN 2 Byte O-Link, process data content IN State In 1 bit State Out 1 bit State Out 1 bit State Intermediate 1 bit State Intermediate 1 bit O-Link, process data content IN State In 1 bit State Intermediate 1 bit State Out 1 bit State Intermediate 1 bit State Intermediate 1 bit O-Link, Service data contents IN 32 bit Force 32 bit Position 32 bit Speed | | |
| O-Link, port type A O-Link, number of ports 1 O-Link, process data width OUT 2 Byte O-Link, process data content OUT Move in 1 bit Move out 1 bit Quit Error 1 bit Move Intermediate 1 bit Move Intermediate 1 bit O-Link, process data width IN 2 Byte O-Link, process data content IN State In 1 bit State Out 1 bit State Out 1 bit State Move 1 bit State Move 1 bit State In 1 bit State In 1 bit State Out 1 bit State Out 1 bit State Nove 1 bit State Intermediate 1 bit O-Link, Service data contents IN 32 bit Force 32 bit Position 32 bit Speed | | |
| 0-Link, number of ports 1 0-Link, process data width OUT 2 Byte 0-Link, process data content OUT Move in 1 bit Move out 1 bit Quit Error 1 bit Move Intermediate 1 bit Move Intermediate 1 bit 0-Link, process data width IN 2 Byte 0-Link, process data content IN State In 1 bit State Out 1 bit State Out 1 bit O-Link, process data content IN State Out 1 bit 0-Link, process data content IN State In 1 bit State Out 1 bit State Out 1 bit State Out 1 bit State Out 1 bit State Intermediate 1 bit State Intermediate 1 bit 0-Link, Service data contents IN 32 bit Force 32 bit Position 32 bit Speed | | |
| O-Link, process data width OUT 2 Byte O-Link, process data content OUT Move in 1 bit Move out 1 bit Quit Error 1 bit Quit Error 1 bit Move Intermediate 1 bit O-Link, process data width IN 2 Byte O-Link, process data content IN 2 Byte O-Link, process data content IN State In 1 bit State Out 1 bit State Out 1 bit State Out 1 bit State Out 1 bit State In 2 bit State In 1 bit State In 1 bit State In 1 bit State Out 1 bit State Out 1 bit State Intermediate 1 bit State Intermediate 1 bit O-Link, Service data contents IN 32 bit Force 32 bit Position 32 bit Speed | | |
| O-Link, process data content OUT Move in 1 bit Move out 1 bit Quit Error 1 bit Move Intermediate 1 bit O-Link, process data width IN O-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 O-Link, Service data contents IN O-Link, | | |
| Move out 1 bit Quit Error 1 bit Move Intermediate 1 bit O-Link, process data width IN 2 Byte O-Link, process data content IN State In 1 bit State Out 1 bit State Out 1 bit State Out 1 bit State Out 1 bit State Device 1 bit State Intermediate 1 bit O-Link, Service data contents IN 32 bit Force 32 bit Force 32 bit Speed | | |
| Quit Error 1 bit Move Intermediate 1 bit 0-Link, process data width IN 0-Link, process data content IN 0-Link, process data content IN 0-Link, process data content IN 0-Link, service data contents I | IO-Link, process data content OUT | |
| O-Link, process data width IN 2 Byte O-Link, process data content IN 2 Byte O-Link, process data content IN State In 1 bit State Out 1 bit State Out 1 bit State Device 1 bit State Intermediate 1 bit O-Link, Service data contents IN 32 bit Force 32 bit Speed 32 bit Speed | | |
| O-Link, process data width IN 2 Byte O-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 O-Link, Service data contents IN 32 bit Force 32 bit Position 32 bit Speed | | |
| O-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 O-Link, Service data contents IN 32 bit Force 32 bit Position 32 bit Speed | | |
| State Out 1 bit State Move 1 bit State Device 1 bit State Intermediate 1 bit O-Link, Service data contents IN 32 bit Force 32 bit Position 32 bit Speed | | |
| State Move 1 bit State Device 1 bit State Intermediate 1 bit O-Link, Service data contents IN 32 bit Force 32 bit Position 32 bit Speed | IO-Link, process data content IN | |
| State Device 1 bit State Intermediate 1 bit O-Link, Service data contents IN 32 bit Force 32 bit Position 32 bit Speed | | |
| State Intermediate 1 bit O-Link, Service data contents IN 32 bit Force 32 bit Position 32 bit Speed | | |
| O-Link, Service data contents IN 32 bit Force 32 bit Position 32 bit Speed | | |
| 32 bit Position 32 bit Speed | | |
| 32 bit Speed | IO-Link, Service data contents IN | |
| | | |
| O-Link, minimum cycle time 1 ms | | |
| | IO-Link, minimum cycle time | 1 ms |

FESTO

| Feature | Value |
|--|--|
| IO-Link, data memory required | 0.5 Kilobyte |
| Max. line length | 15 m outputs |
| | 15 m inputs |
| | 20 m with IO-Link operation |
| Switching logic, outputs | NPN (negative switching) |
| | PNP (positive-switching) |
| Input circuit logic | NPN (negative switching) |
| | PNP (positive-switching) |
| Logic interface, connection type | Plug |
| Logic interface, connection technology | M12x1, A-coded in accordance with EN 61076-2-101 |
| Logic interface, number of poles/wires | 8 |
| Logic interface, connection pattern | 00992264 |
| Mounting type | with internal (female) thread |
| | with accessories |
| Materials note | Conforms to RoHS |
| Material housing | Smooth-anodised wrought aluminium alloy |
| Material piston rod | High alloy steel, non-corrosive |
| Material spindle nut | Steel |
| Material spindle | Roller bearing steel |