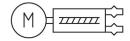
## Parallel gripper HEPP-36-45-EC Part number: 8146663





## **Data sheet**

| Feature  | Value  |
|--|--|
| Size   | 36   |
| Total stroke                                       | 45 mm  |
| Stroke per gripper jaws                            | 22.5 mm  |
| Max. gripper jaw backlash Sz                       | 0.35 mm  |
| Repetition accuracy, gripper                       | 0.02 mm  |
| Number of gripper jaws                             | 2  |
| Drive system                                       | Electrical   |
| Mounting position                                  | optional   |
| Controller operating mode                          | Interpolated mode via fieldbus   |
| Gripper function                                   | Parallel   |
| Design   | Toothed belt<br>Electric gripper<br>With ball screw  |
| Guide  | Roller bearing guide   |
| Position detection                                 | Motor encoder  |
| Configuration support                              | ESI file   |
| Variants   | Metals with copper, zinc or nickel by mass as main constituent are excluded from use. Exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connectors and coils. |
| Rotor position sensor                              | Absolute single-turn encoder   |
| Rotor position sensor, encoder measuring principle | Magnetic   |
| Ready status indication                            | LED  |
| Positioning speed per gripper finger               | 40 mm/s  |
| Positioning acceleration per gripper finger        | 1 m/s²   |
| Gripping speed per gripper finger                  | 3 mm/s   |
| Number of MAC addresses                            | 4  |
| Max. current consumption                           | 3000 mA  |
| Max. current consumption, load                     | 2 A  |
| Max. current consumption, logic                    | 1 A  |
| Nominal operating voltage DC                       | 24 V   |
| Nominal voltage for logic power supply DC          | 24 V   |
| Nominal voltage load voltage DC                    | 24 V   |

| Permissible range for load power supply Permissible range for logic voltage Amark (see declaration of conformity) To EU BKC Directive In accordance with EU RoHS Directive In accordance with EU RoHS Directive In Country of To UK RoHS instructions for EMC  | Feature  | Value   |
|--|--|---|
| Permissible range for logic voltage  KC mark  KC EMP  To LU K Instructions  To LU K Instructions  To LU K RoHS Directive In accordance with EU BoHS Directive In accordance with EU BoHS Directive In Colorabne with EU BoHS Directive In Accordance with EU BoHS Directive In Accordance with EU BoHS Directive In UK Instructions  Shock test with severity level 2 to FN 942017-5 and EN 60068-2-27  Corrosion resistance cass CRC  O - No corrosion stress  CBAS (PWIS) conformity  VDMA24364 zone III  Product corresponds to the internal product definition from Festo for use in battery production Metals with more than 1% by mass of copper, zinc or nickel are excluded from use. The exceptions are nickel in steel, chemically inkele plated surfaces, printed circuit boards, cables, electrical plug connectors and coils  Eleannoom class  Class 6 according to ISO 14644-1  Transport application test with severity level 2 to FN 942017-4 and EN 60668-2-6  Relative air humidity  O - 95%  Non-condensing  Sound pressure level  Go dB(A)  Degree of protection  IP40  Ambient temperature  O **C50**C*  Coil air gripping force  Solon  Solon Solon  Ambient temperature  O **C50**C*  Coil air gripping force  Solon  Solon Solon  Alexandrous at gripper fix x static  Max. torque at gripper fix       | Nominal motor current                              | 1.3 A   |
| KC mark  KC mark  KC Emark  KC Emark  KC Emark  KC Emark  KC EMW  To EU EMC Directive In accordance with EU RoHS Directive In OUR ROHS Instructions Shock resistance  Shock test with severity level 2 to FN 942017-5 and EN 60068-2-27 Corrosion resistance class CRC  O-No corrosion stress  ABS (PWIS) conformity  VDMA24364 zone III  Product corresponds to the internal product definition from Feato for use in battery production-Metals with more than 1% by mass of copper, zinc or inked are excluded from use. The exceptions are nicket in steel, remically nicket-plated surfaces, printed circuit boards, cables, delethral piggle connectors and colls  Clean room class  Class 6 according to 150 14644-1  Transport application test with severity level 2 to FN 942017-4 and EN 60068-2-6  Relative air humidity  0.985% Non-condensing  Sound pressure level 60 dB(A)  Degree of protection IPAO  Ambient temperature  0°C50°C  Total gripping force 50 N  Mass moment of inertia 54 kgcm²  Mass. force a gripper faw 260 N  Mass moment of inertia 54 kgcm²  Mass. force a gripper My static 11.00 N  Mass. force a gripper My static 13.9 Nm  Mass. force a gripper My static 1    | Permissible range for load power supply            | ± 10 %  |
| TE mark (see declaration of conformity) To EU EMC Directive In accordance with EU ROHS Directive In accordance with EU ROHS Directive To UK RoHS instructions Shock resistance Shock resistance Shock resistance class CRC O - No corrosion stress O- No corrosion resistance class CRC ABS (PWIS) conformity VpMA24364 zone III Suitability for the production of Li-ion batteries Product corresponds to the internal product definition from Festo for use in battery production:Metals with more than 1% by mass of copper, zinc or nickel are excluded from use. The exceptions are nickel in steek, chemically nickel-plated surfaces, printed directib boards, cables, electrical plug connections and colls Cleanroom class Class 6 according to 150 14644-1 Transport application test with severity level 2 to FN 942017-4 and EN 60068-2-6 Relative air humidity O - 95% Non-condensing Sound pressure level 60 dB(A) Degree of protection IP40 IP40 IP40 IP40 IP40 IP40 IP40 IP40  | Permissible range for logic voltage                | ± 10 %  |
| In accordance with EU ROHS Directive  JUKCA marking (see declaration of conformity)  To UK instructions for EMC To UK RohS instructions  Shock resistance  Shock test with severity level 2 to FN 942017-5 and EN 60068-2-27  Ornosion resistance class CRC  Ornosion resistance class CRC  ABS (PWIS) conformity  VDMA24364 zone III  Product corresponds to the internal product definition from Festo for use in batteries  Product corresponds to the internal product definition from Festo for use in batterie production-Metals with more than 1% by mass of capper, zinc or nickel are excluded from use. The exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connectors and coils  Clean room class  Class 6 according to 150 14644-1  Transport application test with severity level 2 to FN 942017-4 and EN 60088-2-6  Relative air humidity  Or95%  Relative air plus description for the several production for for the several production for for for for for foreign for the several production for foreign for foreign force for gripper jaw Fz static  Into N  Max. force or gripper jaw Fz static  Into N  Max. force or gripper jaw Fz static  Into N  Max. force or gripper jaw Fz static  Into N  Max. force or gripper My static  Into N  Max. force or gripper fix fix static  Into N  Max. force or gripper fix fix static  Into N  Max. force or gripper fix fix static  Into N  Max. force or gripper fix fix static  Into N  Max. force o | KC mark  | KC-EMV  |
| To UK RoHS instructions  Shock test with severity level 2 to FN 942017-5 and EN 60068-2-27 Corrosion resistance class CRC  O-No corrosion stress  VDMA24364 zone III  Product corresponds to the internal product definition from Festo for use in battery production: Metals with more than 1% by mass of copper, zinc or nickel are excluded from use. The exceptions are nickel in steet, themically nickel-plated surfaces, printed circuit boards, cables, electrical plug connectors and coils  Cleannoom class  Class 6 according to ISO 1464-1  Transport application test with severity level 2 to FN 942017-4 and EN 60068-2-6  Relative air humidity  O-95% Non-condensing  Sound pressure level  O6 dB(A)  Degree of protection  Rabient temperature  O°C50 °C  Total gripping force  Total gripping force  Total gripping force per gripper jaw  Mass moment of inertia  Max. torque at gripper Mx static  Total gripper My static  Max. torque at gripper Mx static  Mx. torque at gripper Mx st    | CE mark (see declaration of conformity)            |   |
| Corrosion resistance class CRC  O - No corrosion stress  ABS (PMS) conformity  VDMA24 364 zone III  Product corresponds to the internal product definition from Festo for use in battery production: Metals with more than 1% by mass of copper, zinc or nickel are excluded from use. The exceptions are nickel in stelled, themically nickel-plade surfaces, printed circuit boards, cables, electrical plug connectors and coils  Class 6 according to ISO 16464-1  Transport application test with severity level 2 to FN 942017-4 and EN 60068-2-6  Relative air humidity  O - 95% Non-condensing  Sound pressure level  60 dB(A)  Degree of protection  IP40  Ambient temperature  O *C50 *C  Total gripping force  520 N  Mass moment of inertia  54 kgcm²  Mass. torque at gripper Ms static  1100 N  Mass. torque at gripper Ms static  13.9 Nm  Mass. torque at gripper Ms st    | UKCA marking (see declaration of conformity)       |   |
| ABS (PWIS) conformity  VDMA24364 zone III  Product corresponds to the internal product definition from Festo for use in battery production:Metals with more than 1% by mass of copper, zinc or nickel are excluded from use. The exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connectors and coils  Cleanroom class  Class 6 according to ISO 14644-1  Transport application test with severity level 2 to FN 942017-4 and EN 60068-2-6  Relative air humidity  O .95% Non-condensing  Sound pressure level  60 dB(A)  Degree of protection  IP40  Ambient temperature  O °C50°C  Total gripping force  520 N  Saripping force per gripper jaw  260 N  Mass moment of inertia  54 kgcm²  Max. force on gripper jaw F static  1100 N  Max. corque at gripper Ms static  Max. torque at gripper Ms static  13.9 Nm  Max. torque at gripper Ms static  13.9 Nm  Max. torque at gripper Ms static  13.9 Nm  Max. torque at gripper five T static  13.9 Nm  Max. torque at gripper five T static  13.9 Nm  Max. torque at gripper five T static  13.9 Nm  Max. torque at gripper five T static  13.9 Nm  Max. torque at gripper five T static  13.9 Nm  Max. torque at gripper five T static  13.9 Nm  Max. torque at gripper five T static  13.9 Nm  Max. torque at gripper five T static  13.9 Nm  Max. torque at gripper five T static  13.9 Nm  Max. torque at gripper five T static  13.9 Nm  Max. torque at gripper five T static  13.9 Nm  Max. torque at gripper five T static  13.9 Nm  Max. torque at gripper five T static  13.9 Nm  Max. torque at gripper five T static  14.100 N  Max. torque at gripper five T static  15.9 Nm  Max. torque at gripper five T static  16.100 N  Max. torque at gripper five T static  17.9 Nm  Max. torque at gripper five T static  18.0 Nm  Max. torque at gripper five T static  19.0 Nm  Max. torque at gripper five T static  19.0 Nm  Max. torque at gripper five T static  19.0 Nm  Max. torque at gripper five T static  19.0 Nm  Max. torque at gripper five T static  19.0 Nm  Max. torque at gri    | Shock resistance                                   | Shock test with severity level 2 to FN 942017-5 and EN 60068-2-27   |
| Suitability for the production of Li-ion batteries  Product corresponds to the internal product definition from Festo for use in battery production: Metals with more than 1% by mass of copper, zinc or nickel are excluded from use. The exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connectors and coils  Class 6 according to ISO 14644-1  Transport application test with severity level 2 to FN 942017-4 and EN 60068-2-6  Relative air humidity  0 - 95% Non-condensing  60 dB(A)  Degree of protection  IP40  Ambient temperature  0 °C50 °C  Fotal gripping force  520 N  Mass moment of inertia  54 kgcm²  Max. force on gripper jaw Fz static  1100 N  Max. torque at gripper Mx static  13.9 Nm  Max. torque at gripper Mx static  13.9 Nm  Max. torque at gripper Mx static  14.9 Nm  Max. torque at gripper Mx static  15.9 Nm  Cated load  2 kg  Nominal torque  0.183 Mm  Lubrication interval for guide components  1 MioCyc  Product weight  Communication profile  CIA402  Eof (File over EtherCAT®)  Fot (File over EtherCAT®)  Fotel dbus, connection system  M12x1, D-coded to EN 61076-2-101  Field bus, connection pattern  4  Field bus, connection pattern  A field bus ink  EtherCAT  Field bus connection  Yu a female thread and centring sleeve  Wote on materials  Material housing  Anodised aluminium  | Corrosion resistance class CRC                     | 0 - No corrosion stress   |
| for use in battery production. Metals with more than 1% by mass of copper, zinc or nickel are excluded from use. The exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical puic ownectors and coils  Cleans Carding to ISO 14644-1  Transport application test with severity level 2 to FN 942017-4 and EN 60068-2-6  Relative air humidity 0-95% Non-condensing  Sound pressure level 60 dB(A)  Degree of protection IP40  Ambient temperature 0°C50°C  Total gripping force 520 N  Scripping force per gripper jaw 260 N  Mass moment of inertia 54 kgcm²  Max. force on gripper jaw Fz static 1100 N  Max. torque at gripper Mx static 13.9 Nm  Max. torque at gripper Mx static 14.9 Nm  Max. torque at gripper Mx static 15.9 Nm  Cated load 2 kg  Nominal torque 0.183 Nm  Lubrication interval for guide components 1 MioCyc  Toduct weight 2100 g  Communication profile CiA402  Exercised bus, connection type Socket  Communication profile CiA402  Exercised bus, connection system M12x1, D-coded to EN 61076-2-101  Eleid bus, connection pattern 4  Field bus, connection pattern 4  Field bus, connection pattern 4  Field bus, connection pattern 52 M M12  Field bus, connection pattern 54 M M12x1  Field bus protocol EtherCAT®  Field bus protocol State thread and centring sleeve  Waterial housing Anodised aluminium   | LABS (PWIS) conformity                             | VDMA24364 zone III  |
| Transport application test with severity level 2 to FN 942017-4 and EN 60068-2-6  Relative air humidity 0 9-5% Non-condensing  Sound pressure level 60 dB(A) Degree of protection IP40 Ambient temperature 0 °C50 °C Total gripping force 520 N  Gripping force per gripper jaw 260 N Mass moment of inertia 54 kgcm² Max. force on gripper jaw Fz static 1100 N  Max. torque at gripper Mx static 13.9 Nm Max. torque at gripper Mx static 13.9 Nm Max. torque at gripper Mx static 13.9 Nm  Max. torque at gripper My static 13.9 Nm  Max. torque at gripper My static 13.9 Nm  Rated load 2 kg Nominal torque 0.183 Nm  Lubrication interval for guide components 1 MicCyc  Product weight 2100 g  Cinado 2  Ene (Ethernet over EtherCAT®) Fold (File over EtherCAT®) Fo    | Suitability for the production of Li-ion batteries | for use in battery production: Metals with more than 1% by mass of copper, zinc or nickel are excluded from use. The exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, |
| Relative air humidity  0 - 95% Non-condensing  Sound pressure level  60 dB(A)  Degree of protection  IP40  Ambient temperature  0 °C50 °C  Fotal gripping force  520 N  Gritpping force per gripper jaw  260 N  Mass moment of inertia  54 kgcm²  Max. force on gripper jaw Fz static  1100 N  Max. torque at gripper Mx static  13.9 Nm  Max. torque at gripper Mx static  34.5 Nm  Max. torque at gripper Mx static  34.5 Nm  Mxa. torque at gripper My static  34.5 Nm  Mxa. torque at gripper My static  31.9 Nm  Cated load  0.183 Nm  Lubrication interval for guide components  1 MioCyc  Product weight  2100 g  Communication profile  CIA402  E0E (Ethernet over EtherCAT®) FoE (File over EtherCAT®) FoE    | Cleanroom class                                    | Class 6 according to ISO 14644-1  |
| Non-condensing Soould pressure level Soend Pressure Soend Pressure Soend | Vibration resistance                               |   |
| Degree of protection IP40 Ambient temperature 0 °C50 °C Fotal gripping force 520 N Gripping force per gripper jaw 260 N Ams someent of inertia 54 kgcm² Max. force on gripper jaw F2 static 1100 N Max. torque at gripper Mx static 13.9 Nm Max. torque at gripper My static 34.5 Nm Max. torque at gripper Mz static 13.9 Nm Cated load 2 kg Nominal torque 0.183 Nm Lubrication interval for guide components 1 MioCyc Product weight 2100 g CiA402 Eof (Ethernet over EtherCAT®) Foe (File over EtherCAT®) Foe (File over EtherCAT®) Foe (File over EtherCAT®) Foeld bus, connection type Socket M12x1, D-coded to EN 61076-2-101 Field bus, connection gastem 4 Field bus, protocol EtherCAT® Electrical connection 12 x M12 Electrical connection 12 x M12 Electrical connection 12 x M12 Fieldbus link EtherCAT For on materials Material housing Anodised aluminium  | Relative air humidity                              |   |
| Ambient temperature  O °C50 °C  Fotal gripping force  Sipping force per gripper jaw  260 N  Mass moment of inertia  54 kgcm²  Max. force on gripper jaw Fz static  1100 N  Max. torque at gripper Mx static  13.9 Nm  Max. torque at gripper My static  34.5 Nm  Max. torque at gripper Mz static  13.9 Nm  Rated load  2 kg  Nominal torque  0.183 Nm  Lubrication interval for guide components  1 MioCyc  Product weight  Communication profile  CiA402  EoE (Ethernet over EtherCAT®)  FoE (File over EtherCAT®)  FoE (File over EtherCAT®)  FoE (File over EtherCAT®)  Foeld bus, connection type  Socket  M12x1, D-coded to EN 61076-2-101  Eield bus, connection gattern  4  Eield bus, connection gattern  4  Eield bus, protocol  EtherCAT®  Electrical connection  2x M12  Eieldbus link  EtherCAT  Fype of mounting  Via female thread and centring sleeve  Note on materials  Material housing  Anodised aluminium   | Sound pressure level                               | 60 dB(A)  |
| Fotal gripping force 520 N Gripping force per gripper jaw 260 N Mass moment of inertia 54 kgcm² Max. force on gripper jaw Fz static 1100 N Max. torque at gripper Mx static 13.9 Nm Max. torque at gripper My static 34.5 Nm Max. torque at gripper Mz static 13.9 Nm Rated load 2 kg Nominal torque 0.183 Nm Lubrication interval for guide components 1 MioCyc Product weight 2100 g Cification profile Cification from the profile Cification for guide components M12x1, D-coded to EN 61076-2-101 Field bus, connection system M12x1, D-coded to EN 61076-2-101 Field bus, protocol EtherCAT® Field bus, protocol EtherCAT® Fieldbus link EtherCAT Fiye of mounting Via female thread and centring sleeve Note on materials Material housing Anodised aluminium  Source Assertic Assertion Asserting Seeve Field Max. Anodised aluminium  Source Asserting Asserting Asserting Seeve Field bus, and centring sleeve Field bus, onnection Seeve Field Beeve Anodised aluminium  Anodised aluminium   | Degree of protection                               | IP40  |
| 260 N Mass moment of inertia 54 kgcm² Max. force on gripper jaw Fz static 1100 N Max. torque at gripper Mx static 13.9 Nm Max. torque at gripper My static 34.5 Nm Max. torque at gripper My static 13.9 Nm Max. torque at gripper Mz static 13.9 Nm Max. torque at gripper Mz static 13.9 Nm Rated load 2 kg Nominal torque 0.183 Nm Lubrication interval for guide components 1 MioCyc Product weight 2100 g CiA402 Eoe (Ethernet over EtherCAT®) Fold (File over E | Ambient temperature                                | 0 °C50 °C   |
| Max. force on gripper jaw Fz static  Max. torque at gripper Mx static  Max. torque at gripper My static  Max. torque at gripper Mz static  Max | Total gripping force                               | 520 N   |
| Max. force on gripper jaw Fz static  1100 N  Max. torque at gripper Mx static  13.9 Nm  Max. torque at gripper My static  34.5 Nm  Max. torque at gripper My static  13.9 Nm  Rated load  Nominal torque  0.183 Nm  .ubrication interval for guide components  1 MioCyc  Product weight  Communication profile  CiA402  EoE (Ethernet over EtherCAT®)  FoE (File over EtherCAT®)  FoE (File over EtherCAT®)  Field bus, connection type  Socket  Field bus, connection pattern  4  EtherCAT®  EtherCAT®  Electrical connection  2x M12  EtherCAT  Type of mounting  Via female thread and centring sleeve  Note on materials  Material housing  Anodised aluminium   | Gripping force per gripper jaw                     | 260 N   |
| Max. torque at gripper Mx static  Max. torque at gripper My static  Max. torque at gripper My static  13.9 Nm  Rated load  Nominal torque  Unification interval for guide components  I MioCyc  Product weight  Communication profile  CiA402  EoE (Ethernet over EtherCAT®)  FoE (File over EtherCAT®)  FoE (File over EtherCAT®)  Field bus, connection system  M12x1, D-coded to EN 61076-2-101  Field bus, protocol  EtherCAT®  Electrical connection  2x M12  EtherCAT  Type of mounting  Note on materials  Material housing  Anodised aluminium  Material housing  Anodised aluminium   | Mass moment of inertia                             | 54 kgcm²  |
| Max. torque at gripper My static  34.5 Nm  Max. torque at gripper Mz static  13.9 Nm  Rated load  2 kg  Nominal torque  0.183 Nm  Lubrication interval for guide components  1 MioCyc  Product weight  2100 g  CiA402 Ebe (Ethernet over EtherCAT®) Foc (File over EtherCAT®) Foc (File over EtherCAT®) Field bus, connection system  M12x1, D-coded to EN 61076-2-101  Field bus, connection pattern  4  Field bus, protocol  EtherCAT®  Electrical connection  2x M12  Fieldbus link  EtherCAT  Type of mounting  Waterial housing  Anodised aluminium   | Max. force on gripper jaw Fz static                | 1100 N  |
| Max. torque at gripper Mz static  Rated load  2 kg  Nominal torque  0.183 Nm  Lubrication interval for guide components  1 MioCyc  Product weight  2100 g  Communication profile  CiA402 E0E (Ethernet over EtherCAT®) FoE (File over EtherCAT®) FoE (File over EtherCAT®) FoE (File over EtherCAT®) FoE (Bus, connection system  M12x1, D-coded to EN 61076-2-101  Field bus, connection pattern  4  Field bus, protocol EtherCAT® Electrical connection 2x M12  Fieldbus link  EtherCAT  Fiye of mounting  Via female thread and centring sleeve  Note on materials  Material housing  Anodised aluminium  | Max. torque at gripper Mx static                   | 13.9 Nm   |
| Rated load  Nominal torque  Lubrication interval for guide components  1 MioCyc  Product weight  Communication profile  CiA402 EoE (Ethernet over EtherCAT®) FoE (File over EtherCAT®)  Field bus, connection type  Socket  Field bus, connection system  M12x1, D-coded to EN 61076-2-101  Field bus, protocol  EtherCAT®  Field bus, protocol  EtherCAT  Field bus, protocol   | Max. torque at gripper My static                   | 34.5 Nm   |
| Nominal torque  Lubrication interval for guide components  1 MioCyc  Product weight  2100 g  CiA402 EoE (Ethernet over EtherCAT®) FoE (File over EtherCAT®) FoE (File over EtherCAT®)  Field bus, connection type  Socket  Field bus, connection pattern  4  Field bus, protocol EtherCAT®  Electrical connection 2x M12  Fieldbus link  EtherCAT  Type of mounting  Via female thread and centring sleeve  Note on materials  Material housing  Anodised aluminium  | Max. torque at gripper Mz static                   | 13.9 Nm   |
| Lubrication interval for guide components  1 MioCyc  2100 g  CiA402 EoE (Ethernet over EtherCAT®) FoE (File over EtherCAT®) FoE (File over EtherCAT®)  Field bus, connection type  Socket  Field bus, connection system  M12x1, D-coded to EN 61076-2-101  Field bus, protocol  EtherCAT®  Electrical connection  2x M12  Fieldbus link  EtherCAT  Type of mounting  Via female thread and centring sleeve  Note on materials  Material housing  Anodised aluminium  | Rated load   | 2 kg  |
| Product weight Communication profile CiA402 EoE (Ethernet over EtherCAT®) FoE (File over EtherCA | Nominal torque                                     | 0.183 Nm  |
| Communication profile  CiA402 EDE (Ethernet over EtherCAT®) FOE (File over EtherCAT®) FOE (File over EtherCAT®) Foeld bus, connection type  Socket  M12x1, D-coded to EN 61076-2-101  Field bus, connection pattern  4  Field bus, protocol EtherCAT®  Electrical connection 2x M12  Fieldbus link EtherCAT  Type of mounting Via female thread and centring sleeve  Note on materials  Material housing Anodised aluminium  | Lubrication interval for guide components          | 1 MioCyc  |
| EoE (Ethernet over EtherCAT®) FoE (File over EtherCAT®)  Socket Field bus, connection system M12x1, D-coded to EN 61076-2-101  Field bus, connection pattern  4 Field bus, protocol EtherCAT®  Electrical connection 2x M12  Fieldbus link EtherCAT  Type of mounting Via female thread and centring sleeve  Note on materials  RoHS-compliant  Material housing Anodised aluminium  | Product weight                                     | 2100 g  |
| Field bus, connection system  M12x1, D-coded to EN 61076-2-101  Gield bus, connection pattern  Gield bus, protocol  EtherCAT®  Electrical connection  2x M12  Fieldbus link  EtherCAT  Type of mounting  Via female thread and centring sleeve  Note on materials  Material housing  Anodised aluminium  | Communication profile                              | EoE (Ethernet over EtherCAT®)   |
| Field bus, connection pattern  EtherCAT®  EtherCAT®  Electrical connection  2x M12  Fieldbus link  EtherCAT  Type of mounting  Note on materials  Material housing  Anodised aluminium   | Field bus, connection type                         | Socket  |
| EtherCAT®  Electrical connection 2x M12  Fieldbus link EtherCAT  Type of mounting Via female thread and centring sleeve  Note on materials RoHS-compliant  Material housing Anodised aluminium   | Field bus, connection system                       | M12x1, D-coded to EN 61076-2-101  |
| Electrical connection 2x M12 Fieldbus link EtherCAT  Type of mounting Via female thread and centring sleeve  Note on materials RoHS-compliant  Material housing Anodised aluminium   | Field bus, connection pattern                      | 4   |
| Fieldbus link  EtherCAT  Type of mounting  Via female thread and centring sleeve  Note on materials  Material housing  Anodised aluminium  | Field bus, protocol                                | EtherCAT®   |
| Type of mounting  Via female thread and centring sleeve  Note on materials  RoHS-compliant  Material housing  Anodised aluminium   | Electrical connection                              | 2x M12  |
| Note on materials RoHS-compliant Material housing Anodised aluminium   | Fieldbus link                                      | EtherCAT  |
| Note on materials RoHS-compliant Material housing Anodised aluminium   | Type of mounting                                   | Via female thread and centring sleeve   |
| _  | Note on materials                                  | RoHS-compliant  |
| Material gripper jaws Steel  | Material housing                                   | Anodised aluminium  |
|  | Material gripper jaws                              | Steel   |