

Rotary drive units ERMS

FESTO

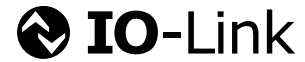


This product is also available as a modular mechanical system
Rotary drive ERMO



Key features

At a glance
Plug and work with the Simplified Motion Series



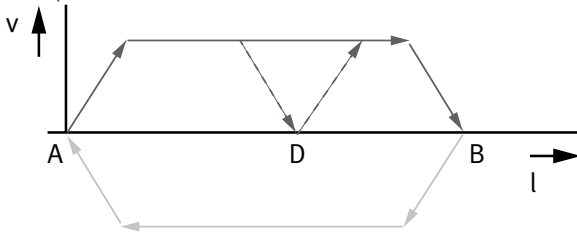
The simplicity of pneumatics is now combined for the first time with the advantages of electric automation thanks to the Simplified Motion Series. These integrated drives are the perfect solution for all users who are looking for an electric alternative for very simple movement and positioning tasks between two mechanical end positions, but don't want the commissioning process for traditional electric drive systems that can often be quite complex.

There is no need for any software since operation is simply based on the "plug and work" principle. Digital I/O (DIO) and IO-Link are always automatically included – a product with two types of control as standard.

| Integrated | Easy | Standardised | Connected |
|---|---|--|---|
| The integrated electronics in the drive are at the heart of the Simplified Motion Series. | For commissioning, simply set all relevant parameters directly on the drive: <ul style="list-style-type: none"> • Speed and force • Reference end position and cushioning • Manual operation | Electrical connection via M12 plug design <ul style="list-style-type: none"> • Power (4-pin): power supply for the motor • Logic (8-pin): control signal, sensor signal and power for the integrated electronics | Use of extended functions possible via IO-Link: <ul style="list-style-type: none"> • Remote configuration of motion parameters • Copy and backup function for transferring parameters • Read function for extended process parameters • Freely definable intermediate position • Firmware update |

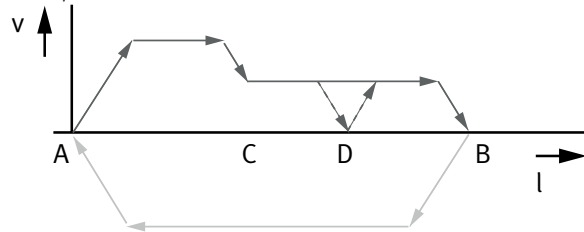
The functions of the Simplified Motion Series

Basic profile for movement between two end positions: with speed control



- These drives are designed for simple movements between two end positions.
- Proximity switches are required in order to implement any intermediate positions.
- With the intermediate position that can be freely configured via IO-Link, movements can be stopped at a freely defined point between the end positions, without the need for proximity switches or external stops

Extended motion profile for simplified press-fitting and clamping functions: with speed and force control



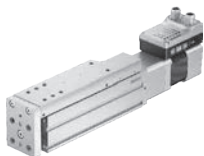
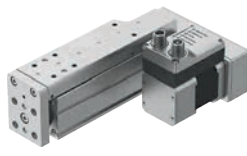
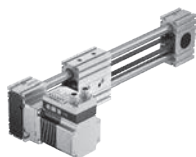
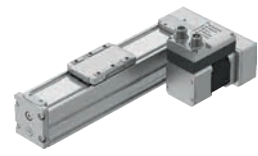
Key features

At a glance



- Without external servo drive: all the necessary electronic components are combined in the integrated drive
- Two control options integrated as standard: digital I/O and IO-Link
- Complete solution for simple movements between mechanical end positions
- Simplified commissioning: all parameters can be manually set directly on the drive
- No special expertise required for commissioning
- End-position feedback similar to that of a conventional proximity switch is integrated as standard
- Sealed hollow shaft for the integrated through-feed of cables and tubing
- Standardised mounting interface for direct connection to the electric mini slides EGSL, EGSC and EGSS

The products in the Simplified Motion Series

Electric cylinder unit
EPCEMini slide unit
EGSS-BS-KFElectric cylinder unit
EPCSMini slide unit with parallel motor
mounting
EGSS-BS-KFElectric cylinder unit with parallel
motor mounting
EPCSSpindle axis unit
ELGS-BS-KFSpindle axis unit with parallel motor
mounting
ELGS-BS-KFToothed belt axis unit
ELGS-TB-KFToothed belt axis unit
ELGERotary drive unit
ERMS

Modular and flexible with motor, motor mounting kit and servo drive

This product is also available within the Optimised Motion Series as rotary drive ERMO:



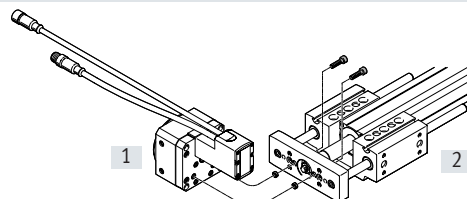
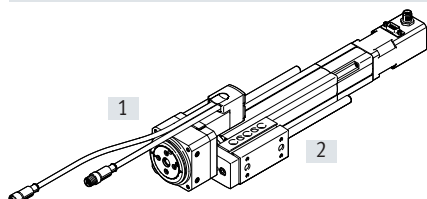
Rotary drive and motor in one unit. Compact and powerful rotating and swivelling with no limits. Sturdy and precise thanks to backlash-free ball bearing.

- Rotary drive in 4 sizes for torque of up to 5 Nm
- Hollow shaft for energy through-feed for attachments
- Optional pneumatic or electric energy chain
- Optional proximity switch for homing or position sensing
- Holding brake optional
- Modular: individual combinations with servo drive

Key features

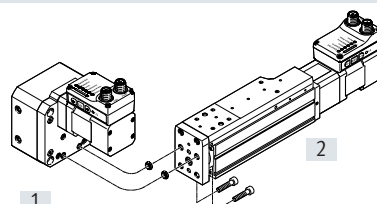
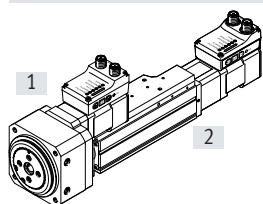
Possible combinations with Festo drives

Rotary drive unit ERMS on electric cylinder EPCO



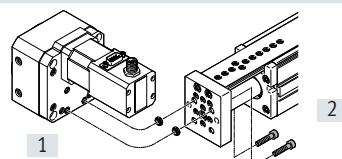
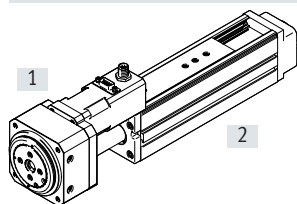
| Size | | Accessories | |
|----------|----------|-----------------|------------|
| [1] ERMS | [2] EPCO | Centring sleeve | Screw |
| 25 | 40 | ZBH-7 (x2) | M5x20 (x2) |

Rotary drive unit ERMS on mini slide unit EGSS



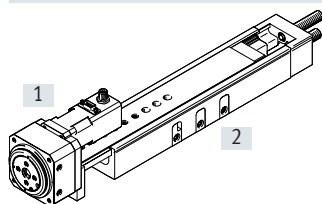
| Size | | Accessories | |
|----------|----------|-----------------|------------|
| [1] ERMS | [2] EGSS | Centring sleeve | Screw |
| 25 | 45, 60 | ZBH-7 (x2) | M5x12 (x2) |
| 32 | 60 | ZBH-7 (x2) | M5x15 (x2) |

Rotary drive unit ERMS on mini slide EGSL

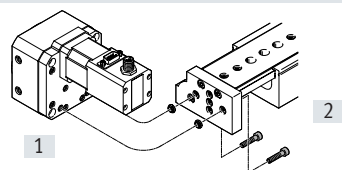


| Size | | Accessories | |
|----------|----------|-----------------|------------|
| [1] ERMS | [2] EGSL | Centring sleeve | Screw |
| 25 | 55 | ZBH-7 (x2) | M5x14 (x2) |
| 32 | 55 | ZBH-7 (x2) | M5x14 (x2) |

Rotary drive unit ERMS on mini slide DGSL



The proximity switch SIEN cannot be used as a reference sensor on the ERMO when ERMO-12 is combined with DGSL-12.

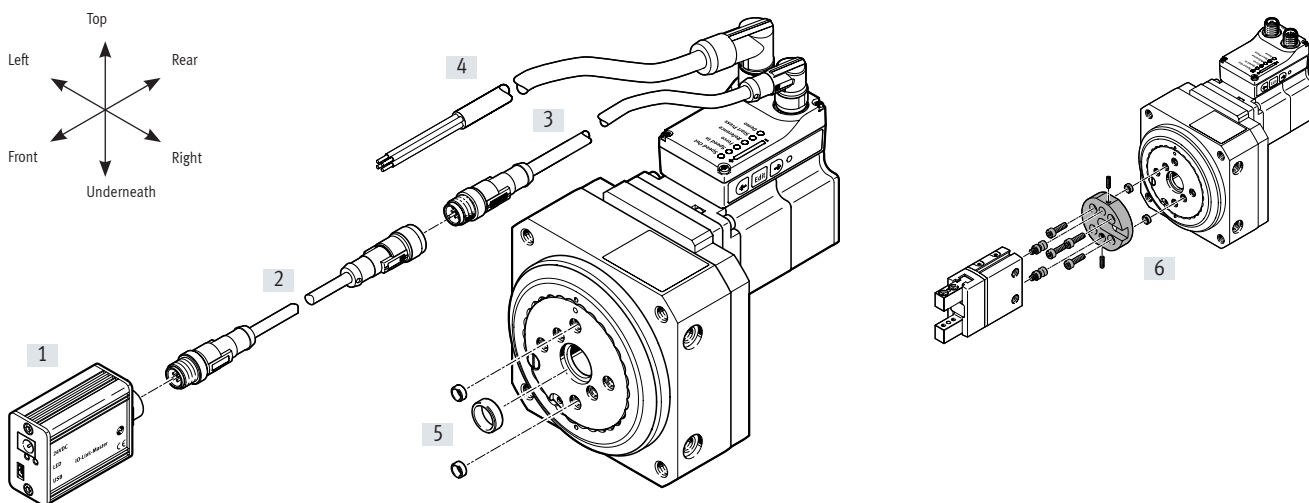


| Size | | Accessories | |
|----------|----------|-----------------|------------|
| [1] ERMS | [2] DGSL | Centring sleeve | Screw |
| 25 | 20 | ZBV-9-7 (x2) | M5x22 (x2) |
| 25 | 25 | ZBV-9-7 (x2) | M5x22 (x2) |

Type codes

| | | | |
|------|--|--|--|
| 001 | Series | | |
| ERMS | Rotary drive | | |
| 002 | Size | | |
| 25 | 25 | | |
| 32 | 32 | | |
| 003 | Nominal swivel angle | | |
| 90 | 90° | | |
| 180 | 180° | | |
| 004 | Motor type | | |
| ST | Stepper motor ST | | |
| 005 | Controller | | |
| M | Integrated | | |
| 006 | Control panel | | |
| H1 | Integrated | | |
| 007 | Bus protocol/activation | | |
| PLK | PNP and IO-Link® | | |
| NLK | NPN and IO-Link® | | |
| 008 | End-position sensing | | |
| AA | With integrated end-position sensing | | |
| 009 | Cable outlet direction | | |
| | Standard | | |
| L | Left | | |
| R | Right | | |
| 010 | Electrical accessories | | |
| | None | | |
| L1 | Adapter for operation as IO-Link® device | | |

Peripherals overview

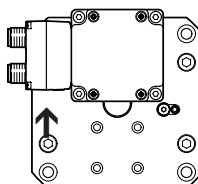
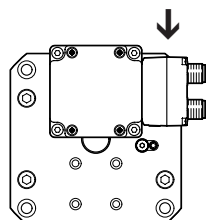
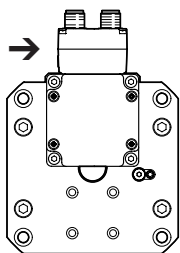


Cable outlet direction

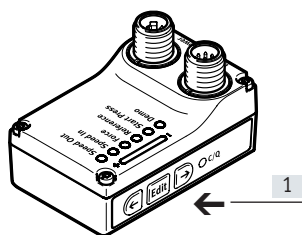
Standard

[L] Left

[R] Right



Control elements





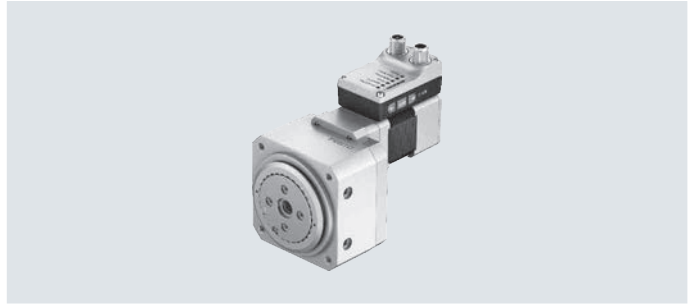
[1] Pushbutton actuators for parameterisation and control

Peripherals overview

| Accessories | | |
|----------------------------------|---|-----------------|
| Type/order code | Description | → Page/Internet |
| [1] IO-Link master USB CDSU-1 | For straightforward use of the mini slide unit via IO-Link | 21 |
| [2] Adapters NEFC-M12G8 | Connection between the motor and the IO-Link master | 21 |
| [3] Connecting cable NEBC-M12 | For connection to a controller | 20 |
| [4] Supply cable NEBL-T12 | For connecting load and logic supply | 20 |
| [5] Centring sleeve ZBH | <ul style="list-style-type: none"> • For centring attachments • For centring the rotary drive | 20 |
| [6] Adapter kit DHAA | For drive/gripper connections | adapter kit |

Datasheet

-  Size
25, 32
-  Rotation angle
90°, 180°



| General technical data | | | |
|------------------------|-----|--|------|
| Size | | 25 | 32 |
| Design | | Electromechanical rotary drive with integrated drive | |
| Rotation angle | | 90, 180 | |
| Gear ratio | | 9:1 | 7:1 |
| Mounting position | | Any | |
| Additional functions | | Built-in end-position sensing User interface | |
| Display | | LED | |
| Homing | | Positive fixed stop block Negative fixed stop block | |
| Type of mounting | | With female thread | |
| Max. cable length | | | |
| Inputs/outputs | [m] | 15 | |
| IO-Link operation | [m] | 20 | |
| Product weight | | 1472 | 2304 |

| Mechanical data | | | |
|------------------------------------|-----------------------|-------|------|
| Size | | 25 | 32 |
| Permissible mass moment of inertia | [kgcm ²] | 65 | 164 |
| Peak torque | [Nm] | 2.7 | 5.6 |
| Max. speed ¹⁾ | [rpm] | 150 | 100 |
| Max. speed at 90° | [rpm] | 105 | 100 |
| Speed "Speed Press" ²⁾ | [rpm] | 3 | 2 |
| Angular acceleration ²⁾ | [rad/s ²] | ≤140 | |
| Repetition accuracy | [°] | ±0.05 | ±0.1 |
| Torsional backlash ³⁾ | [°] | 0.2 | 0.2 |

1) Adjustable increments of 10%

2) Unchangeable parameter

3) Without load in new condition

Datasheet

| Electrical data | | | |
|---|-------|-------------------------------|-----|
| Size | | 25 | 32 |
| Motor | | | |
| Nominal voltage DC | [V] | 24 (±15%) | |
| Nominal current | [A] | 3 | 5.3 |
| Max. current consumption (load) | [A] | 3 | 5.3 |
| Max. current consumption (logic) | [mA] | 300 | |
| Encoder | | | |
| Rotor position sensor | | Absolute encoder, single turn | |
| Rotor position sensor measuring principle | | Magnetic | |
| Rotor position encoder resolution | [bit] | 16 | |
| Interfaces | | | |
| Size | | 25 | 32 |
| Parameterisation interface | | | |
| IO-Link | | Yes | |
| User interface | | Yes | |
| Digital inputs | | | |
| Number | | 2 | |
| Switching logic | | PNP | |
| | | NPN | |
| Characteristics | | Not galvanically isolated | |
| | | Configurable | |
| Specification | | Based on IEC 61131-2, type 1 | |
| Operating range | [V] | 24 | |
| Digital outputs | | | |
| Number | | 2 | |
| Switching logic | | PNP | |
| | | NPN | |
| Rotor position sensor | | Absolute encoder, single turn | |
| Characteristics | | Not galvanically isolated | |
| | | Configurable | |
| Max. current | [mA] | 100 | |

Datasheet

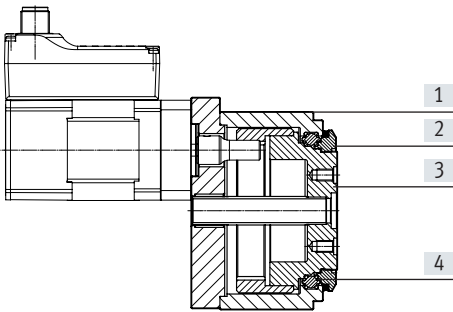
| Technical data – IO-Link | | |
|--------------------------|------------|------------------------|
| Size | 25 | 32 |
| SIO mode support | | Yes |
| Communication mode | | COM3 (230.4 kBd) |
| Connection technology | | Plug |
| Port class | | A |
| No. of ports | | 1 |
| Process data width OUT | [byte] | 2 |
| Process data content OUT | [bit] | 1 (Move in) |
| | [bit] | 1 (Move out) |
| | [bit] | 1 (Move Intermediate) |
| | [bit] | 1 (Quit Error) |
| Process data width IN | [byte] | 2 |
| Process data content IN | [bit] | 1 (State Device) |
| | [bit] | 1 (State Move) |
| | [bit] | 1 (State in) |
| | [bit] | 1 (State out) |
| | [bit] | 1 (State Intermediate) |
| Service data content IN | [bit] | 32 (Force) |
| | [bit] | 32 (Position) |
| | [bit] | 32 (Speed) |
| Minimum cycle time | [ms] | 1 |
| Data memory required | [kilobyte] | 0.5 |
| Protocol version | | Device V 1.1 |

| Operating and environmental conditions | | |
|--|------|---|
| Size | 25 | 32 |
| Insulation class | | B |
| Ambient temperature | [°C] | 0 ... +50 |
| Storage temperature | [°C] | -20 ... +60 |
| Note on ambient temperature | | Above an ambient temperature of 30°C, the power must be reduced by 2% per K |
| Temperature monitoring | | Switch-off for excessive temperature |
| | | Integrated precise CMOS temperature sensor with analogue output |
| Relative humidity | [%] | 0 ... 85 |
| Protection class | | III |
| Degree of protection | | IP40 |
| Duty cycle | [%] | 100 |
| CE marking (see declaration of conformity) | | To EU EMC Directive for EMCS-ST → festo.com/sp |
| | | To EU RoHS Directive |
| UKCA marking (see declaration of conformity) | | To UK instructions for EMC |
| | | To UK RoHS instructions |
| KC mark | | KC EMC |
| Certification | | RCM |
| Vibration resistance | | Transport application test with severity level 1 to FN 942017-4 and EN 61800-2 and EN 61800-5-1 |
| Shock resistance | | Shock test with severity level 1 to FN 942017-5 and EN 61800-2 |
| Maintenance interval | | Lifetime lubrication |

Datasheet

Materials

Sectional view



Rotary drive

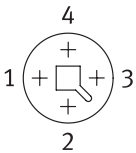
| | | |
|-----|-------------------|----------------------------------|
| [1] | Housing | Anodised wrought aluminium alloy |
| [2] | Clamping ring | Anodised wrought aluminium alloy |
| [3] | Rotating plate | Anodised wrought aluminium alloy |
| [4] | Ball bearings | Rolling bearing steel |
| | Sealing ring | NBR |
| | PWIS conformity | VDMA24364 zone III |
| | Note on materials | RoHS-compliant |

Pin allocation

Power supply

Plug

M12x1, 4-pin, T-coded to EN 61076-2-111

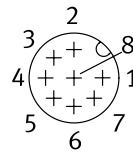


| Pin | Function |
|-----|---|
| 1 | Power voltage supply (24 V DC) |
| 2 | Reference potential, power voltage supply (GND) |
| 3 | Reserved, do not connect |
| 4 | Functional earth (FE) |

Logic interface

Plug

M12x1, 8-pin, A-coded to EN 61076-2-101



When used with digital I/O

| Pin | Function |
|-----|---|
| 1 | Logic voltage supply (24 V DC) |
| 2 | Digital output 1 (State "In") |
| 3 | Digital output 2 (State "Out") |
| 4 | Reference potential, logic voltage supply (GND) |
| 5 | Digital input 1 (Move "In") |
| 6 | Digital input 2 (Move "Out") |
| 7 | Reserved, do not connect |
| 8 | Reference potential, logic voltage supply (GND) |

When used with IO-Link

| Pin | Function |
|-----|---|
| 1 | L+ IO-Link power supply (24 V DC) |
| 2 | Reserved, do not connect |
| 3 | C/Q communication with the IO-Link master |
| 4 | L – Reference potential, IO-Link power supply (0 V) |
| 5 | Reserved, do not connect |
| 6 | Reserved, do not connect |
| 7 | Reserved, do not connect |
| 8 | L – Reference potential, IO-Link power supply (0 V) |

Datasheet

Sizing example

Application data:

- Mass moment of inertia: 100 kgcm²
- Mounting position: horizontal
- Rotation angle: 180°
- Max. permitted positioning time: 1 s (one direction)

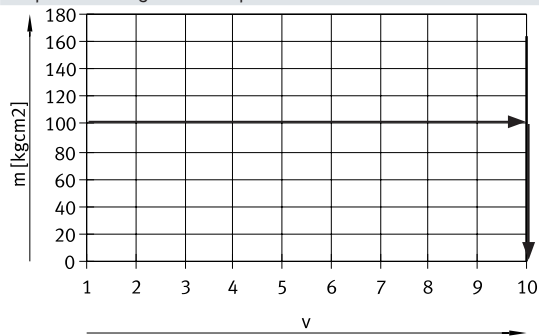
Step 1: Selecting the possible size from the table → page 8

Mechanical data

| | | |
|---|----|-----|
| Size | 25 | 32 |
| Permissible mass moment of inertia [kgcm ²] | 65 | 164 |

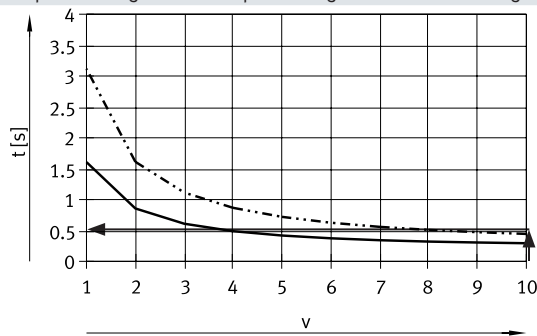
→ Smallest possible size: ERMS-32-180

Step 2: Selecting the max. speed level v for mass moment of inertia



→ Max. speed level for payload: level 10

Step 3: Reading off the min. positioning time t for rotation angle



— 90°
- - - 180°

→ Min. positioning time for 180° at level 10: 0.5 s

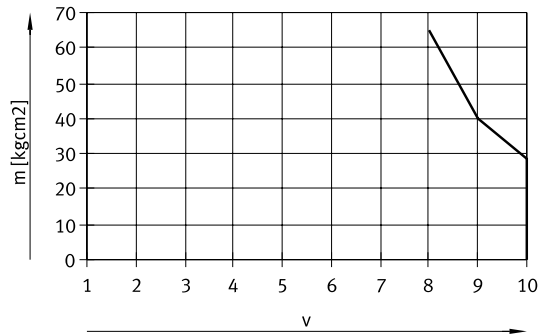
Result

The application can be implemented using ERMS-32-180. A minimum positioning time (one direction) of 0.5 s is achieved. Longer positioning times can be selected at any time using a lower speed level.

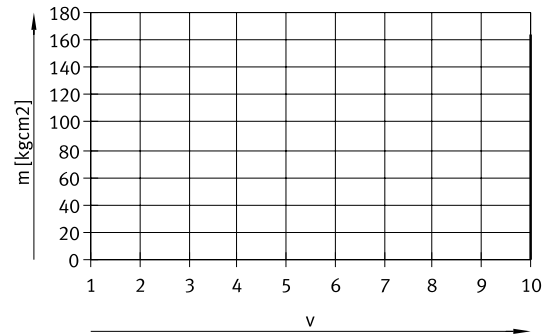
Datasheet

Mass moment of inertia m as a function of speed level v

Size 25

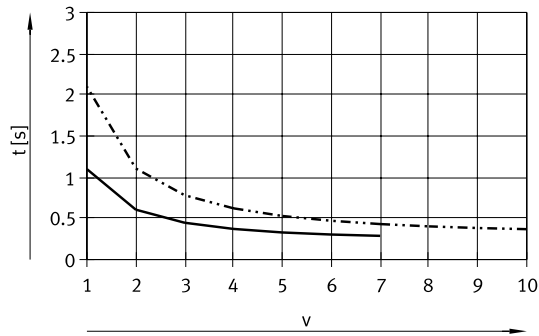


Size 32

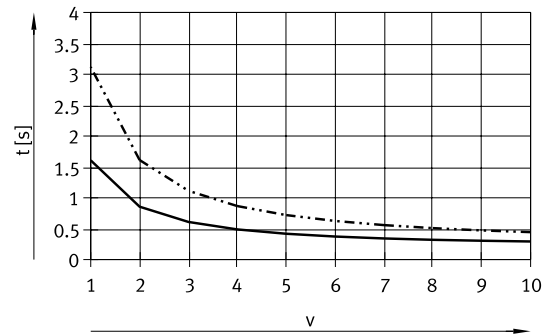


Positioning time t as a function of speed level v and rotation angle

Size 25



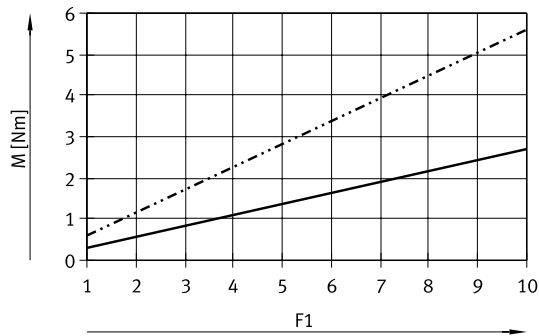
Size 32



— 90°
- - - 180°

— 90°
- - - 180°

Torque M as a function of force level $F1$



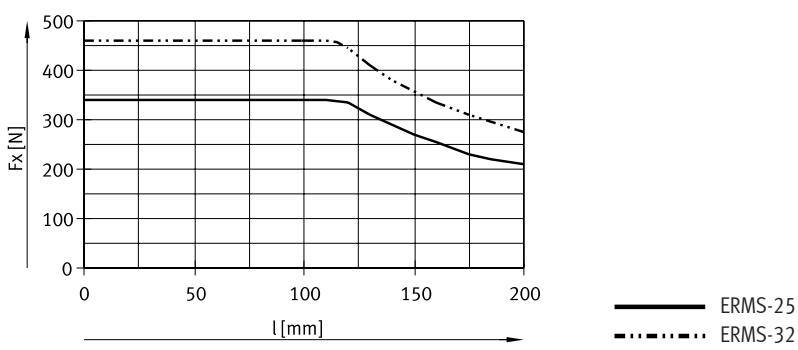
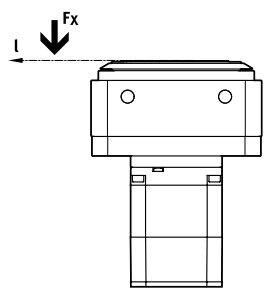
— ERMS-25
- - - ERMS-32

Datasheet

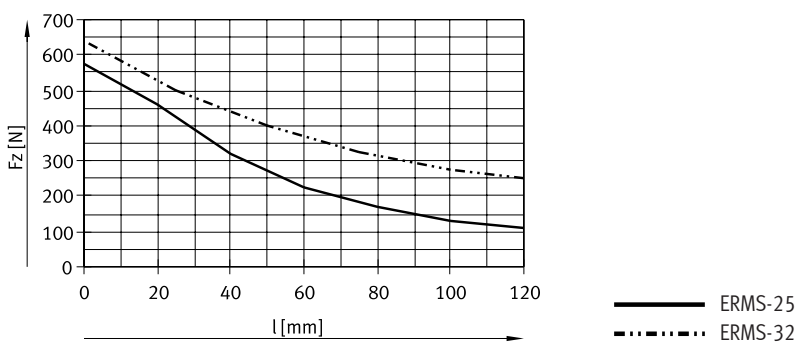
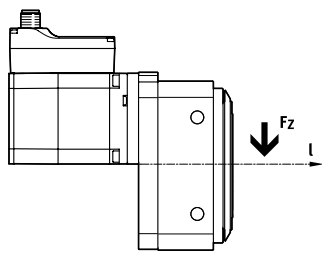
Max. permissible axial and radial force F_x/F_z

| | | | | |
|--------------------|-----|------|--|------|
| Size | | 25 | | 32 |
| Static | | | | |
| Axial force F_x | [N] | 700 | | 800 |
| Radial force F_z | [N] | 1200 | | 2000 |
| Dynamic | | | | |
| Axial force F_x | [N] | 350 | | 450 |
| Radial force F_z | [N] | 450 | | 550 |

Max. dynamic axial force F_x as a function of lever arm l



Max. dynamic radial force F_z as a function of lever arm l

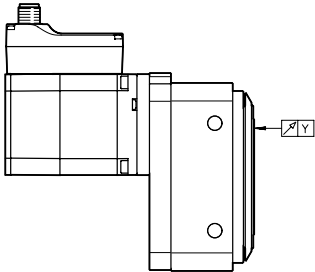


Datasheet

Axial eccentricity and concentricity

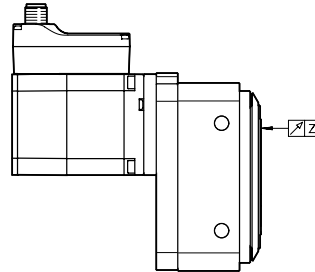
Axial eccentricity

Measured on the surface of the rotating plate at the plate edge, in new condition.



Concentricity

Measured at the centring hole of the rotating plate, when new.

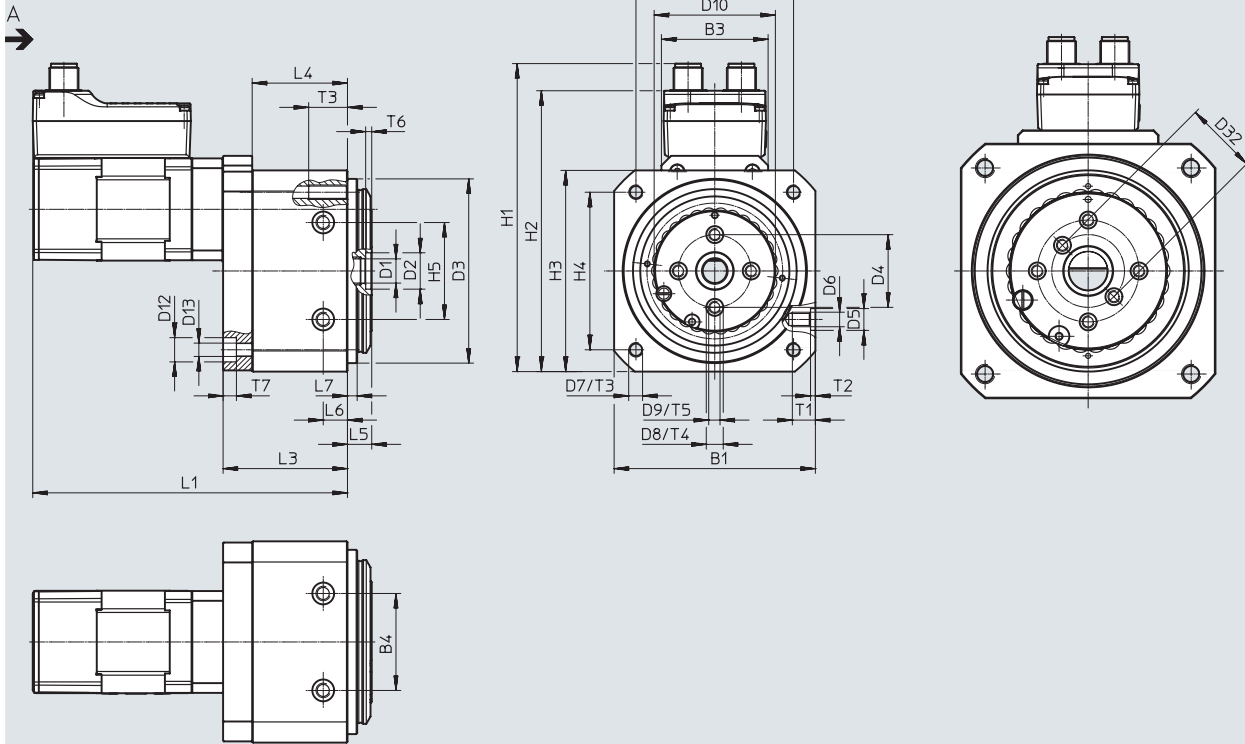


| Size | | 25 | 32 |
|----------------------|------|-------|-------|
| Axial eccentricity Y | [mm] | <0.02 | <0.04 |
| Concentricity Z | [mm] | <0.02 | <0.04 |

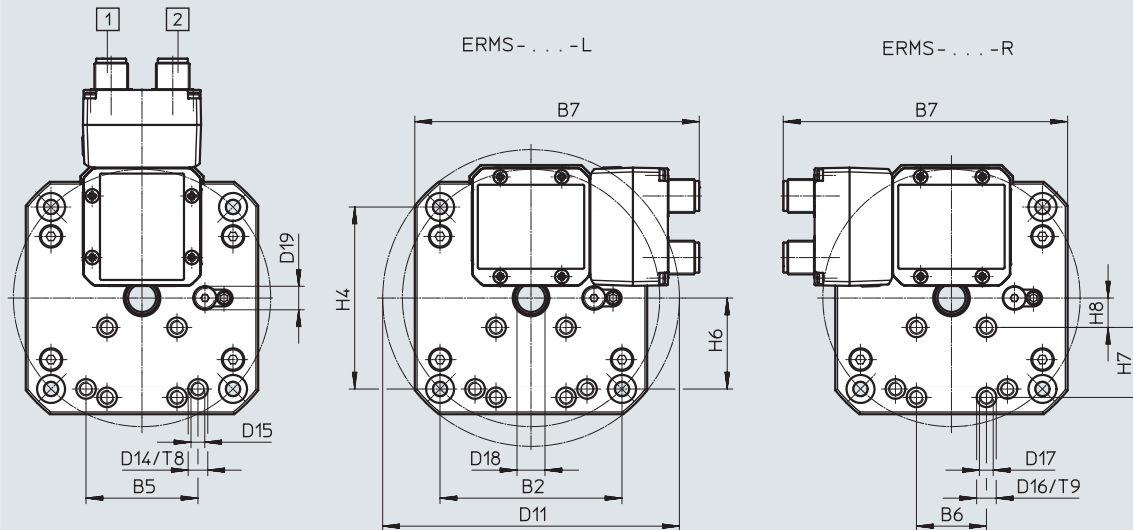
Datasheet

Dimensions

Download CAD data → www.festo.com
ERMS-32-...



View A



- [1] Connection to logic interface
- [2] Connection for power supply

Datasheet

| Size | B1 ±0.3 | B2 | B3 | B4 ±0.03 | B5 ±0.02 | B6 ±0.02 | B7 | D1 ∅ | D2 ∅ H8 | D3 ∅ f8 | D4 ∅ ±0.02 |
|------|------------|----|----|-------------|-------------|-------------|-------|---------|---------------|---------------|------------------|
| 25 | 83 | 65 | 44 | 40 | 40 | 25 | 101.6 | 10 | 15 | 76 | 30 |
| 32 | 105 | 85 | 58 | 60 | – | 25 | 120 | 16 | 20 | 96 | 42 |

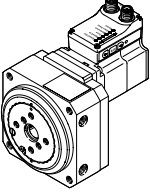
| Size | D5 ∅ H7 | D6 | D7 | D8 ∅ H7 | D9 | D10 ∅ | D11 ∅ ±0.5 | D12 ∅ | D13 ∅ | D14 ∅ H7 | D15 |
|------|---------------|----|----|---------------|----|----------|------------------|----------|----------|----------------|-----|
| 25 | 9 | M6 | M6 | 7 | M5 | 50 | 106 | 10 | 5.5 | 7 | M5 |
| 32 | 12 | M8 | M8 | 7 | M5 | 65 | 135 | 11 | 6.6 | – | – |

| Size | D16 ∅ H7 | D17 | D18 max. | D19 | D32 ±0.02 | H1 | H2 | H3 ±0.3 | H4 | H5 ±0.03 |
|------|----------------|-----|-------------|------|--------------|-------|-------|------------|----|-------------|
| 25 | 7 | M5 | 10 | M8x1 | – | 127.1 | 115.9 | 83 | 65 | 40 |
| 32 | 7 | M5 | 9 | M8x1 | 30 | 149 | 137.8 | 105 | 85 | 60 |

| Size | H6 | H7 ±0.02 | H8 | L1 ±1.5 | L3 ±0.6 | L4 | L5 ±0.2 | L6 ±0.1 | L7 ±0.1 | T1 |
|------|------|-------------|------|------------|------------|------|------------|------------|------------|-----|
| 25 | 32.5 | 25 | 10.5 | 129.8 | 51.3 | 39.3 | 10 | 10 | 4 | 9.5 |
| 32 | – | 25 | 15 | 127 | 46.5 | 34.5 | 12 | 10 | 6 | 15 |

| Size | T2 +0.1 | T3 | T4 +0.1 | T5 | T6 +0.1 | T7 | T8 | T9 |
|------|------------|----|------------|-----|------------|-----|-----|-----|
| 25 | 2 | 16 | 1.5 | 8.5 | 2.5 | 5.5 | 1.5 | 1.5 |
| 32 | 2.5 | 20 | 1.5 | 10 | 2.8 | 6.8 | – | 1.5 |


Ordering data

| Ordering data | Size | Rotation angle | Part no. | Type |
|--|------|----------------|----------------|-----------------------------------|
|  | 25 | 90° | 8087819 | ERMS-25-90-ST-M-H1-PLK-AA |
| | | 180 | 8087820 | ERMS-25-180-ST-M-H1-PLK-AA |
| | 32 | 90° | 8087821 | ERMS-32-90-ST-M-H1-PLK-AA |
| | | 180° | 8087822 | ERMS-32-180-ST-M-H1-PLK-AA |
| | | | | |

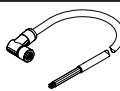
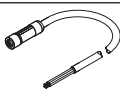
Ordering data – Modular product system



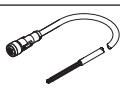
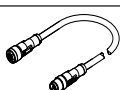
| Ordering table | | | | | |
|--------------------------|--------------------------------------|---------|------------|-------------|------------|
| Size | 25 | 32 | Conditions | Code | Enter code |
| Module no. | 8087808 | 8087809 | | | |
| Series | ERMS | | | ERMS | ERMS |
| Size | 25 | 32 | | -... | |
| Nominal swivel angle [°] | 90, 180 | 90, 180 | | -... | |
| Motor type | Stepper motor ST | | | -ST | -ST |
| Controller | Integrated | | | -M | -M |
| Operator panel | Integrated | | | -H1 | -H1 |
| Bus protocol/control | NPN and IO-Link | | | -NLK | |
| | PNP and IO-Link | | | -PLK | |
| End-position sensing | With integrated end-position sensing | | | -AA | -AA |
| Cable outlet direction | Standard | | | | |
| | Left | | | -L | |
| | Right | | | -R | |
| Electrical accessories | None | | | | |
| | Adapter for operation as IO device | | | +L1 | |


Accessories

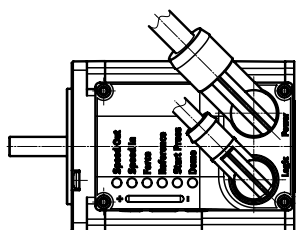
| Ordering data – Centring sleeves | | | | Datasheets → Internet: zbh | |
|--|----------|--|----------------|----------------------------|------------------|
| | For size | Description | Part no. | Type | PU ¹⁾ |
|  | 25 | For centring the drive for lateral mounting | 8137184 | ZBH-9-B | 10 |
| | 32 | | 8137185 | ZBH-12-B | |
| | 25, 32 | For centring attachments on the rotating plate | 8146544 | ZBH-7-B | |
| | 25 | For centring attachments in the middle of the rotating plate | 191409 | ZBH-15 | |

1) Packaging unit

| Ordering data – Supply cables | | | | Datasheets → Internet: nebl | |
|--|-------------------------------|------------------------------|------------------|-----------------------------|------------------------------|
| | Electrical connection, left | Electrical connection, right | Cable length [m] | Part no. | Type |
|  | Angled socket, M12x1, 4-pin | Cable, open end, 4-wire | 2 | 8080778 | NEBL-T12W4-E-2-N-LE4 |
| | | | 5 | 8080779 | NEBL-T12W4-E-5-N-LE4 |
| | | | 10 | 8080780 | NEBL-T12W4-E-10-N-LE4 |
| | | | 15 | 8080781 | NEBL-T12W4-E-15-N-LE4 |
|  | Straight socket, M12x1, 4-pin | Cable, open end, 4-wire | 2 | 8080790 | NEBL-T12G4-E-2-N-LE4 |
| | | | 5 | 8080791 | NEBL-T12G4-E-5-N-LE4 |
| | | | 10 | 8080792 | NEBL-T12G4-E-10-N-LE4 |
| | | | 15 | 8080793 | NEBL-T12G4-E-15-N-LE4 |


| Ordering data – Connecting cables | | | | Datasheets → Internet: nebc | |
|--|-------------------------------|------------------------------|------------------|-----------------------------|--------------------------------|
| | Electrical connection, left | Electrical connection, right | Cable length [m] | Part no. | Type |
|  | Angled socket, M12x1, 8-pin | Cable, open end, 8-wire | 2 | 8094476 | NEBC-M12W8-E-2-N-B-LE8 |
| | | | 5 | 8094478 | NEBC-M12W8-E-5-N-B-LE8 |
| | | | 10 | 8094481 | NEBC-M12W8-E-10-N-B-LE8 |
| | | | 15 | 8094479 | NEBC-M12W8-E-15-N-B-LE8 |
|  | Straight plug, M12x1, 8-pin | Cable, open end, 8-wire | 2 | 8080786 | NEBC-M12W8-E-2-N-M12G8 |
| | | | 5 | 8080787 | NEBC-M12W8-E-5-N-M12G8 |
| | | | 10 | 8080788 | NEBC-M12W8-E-10-N-M12G8 |
| | | | 15 | 8080789 | NEBC-M12W8-E-15-N-M12G8 |
|  | Straight socket, M12x1, 8-pin | Cable, open end, 8-wire | 2 | 8094480 | NEBC-M12G8-E-2-N-B-LE8 |
| | | | 5 | 8094477 | NEBC-M12G8-E-5-N-B-LE8 |
| | | | 10 | 8094482 | NEBC-M12G8-E-10-N-B-LE8 |
| | | | 15 | 8094475 | NEBC-M12G8-E-15-N-B-LE8 |
|  | Straight plug, M12x1, 8-pin | Cable, open end, 8-wire | 2 | 8080782 | NEBC-M12G8-E-2-N-M12G8 |
| | | | 5 | 8080783 | NEBC-M12G8-E-5-N-M12G8 |
| | | | 10 | 8080784 | NEBC-M12G8-E-10-N-M12G8 |
| | | | 15 | 8080785 | NEBC-M12G8-E-15-N-M12G8 |

 **Note**
The cables are positioned at a 45° angle to the axis.



Accessories

| Ordering data – IO-Link master USB | | | | | Datasheets → Internet: cdsu |
|---|---|------------------|----------------|---------------|-----------------------------|
| | Description | Cable length [m] | Part no. | Type | |
|  | <ul style="list-style-type: none"> For using the unit with IO-Link An external power supply plug is also required (not included in the scope of delivery) | 0.3 | 8091509 | CDSU-1 | |

| Ordering data – Adapter | | | | | Datasheets → Internet: nefc |
|---|-------------------------------|------------------------------|------------------|----------------|--------------------------------|
| | Electrical connection, left | Electrical connection, right | Cable length [m] | Part no. | Type |
|  | Straight socket, M12x1, 8-pin | Straight plug, M12x1, 5-pin | 0.3 | 8080777 | NEFC-M12G8-0.3-M12G5-LK |

Festo - Your Partner in Automation



1 Festo Inc.
5300 Explorer Drive
Mississauga, ON L4W 5G4
Canada

Festo Customer Interaction Center
Tel: 1 877 463 3786
Fax: 1 877 393 3786
Email: customer.service.ca@festo.com



2 Festo Pneumatic
Av. Ceylán 3,
Col. Tequesquináhuac
54020 Tlalnepantla,
Estado de México

Multinational Contact Center
01 800 337 8669
ventas.mexico@festo.com



3 Festo Corporation
1377 Motor Parkway
Suite 310
Islandia, NY 11749

Festo Customer Interaction Center
1 800 993 3786
1 800 963 3786
customer.service.us@festo.com



4 Regional Service Center
7777 Columbia Road
Mason, OH 45040

Connect with us



www.festo.com/socialmedia



www.festo.com

Subject to change