

## Spindle axes ELGC-BS-KF

**FESTO**



This drive is also available as a product unit as part of the  
Simplified Motion Series  
Spindle axis ELGS-BS-KF



## Characteristics

### At a glance



- Optimal installation space to working space ratio
- Protected against external influences by internal guide
- Unique assembly system
- Compact double bearing integrated in the axis to save space
- Stainless steel cover strip kept in place with magnetic strips
- Wide range of mounting options for optimum machine integration

#### Compact

Optimum dimensions thanks to the integrated compact coupling and a very short slide

#### Flexible

Adapterless combination of ELGC and EGSC using the innovative "one size down" assembly system

#### Integrated

Simple position sensing with proximity switch SMT-8M and integrated positioning magnet

#### Protected

The cover strip and the optional vacuum connection provide protection against particle immissions and emissions

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

#### Motor

Servo motor



Stepper motor



#### Servo drive

Servo drive



Motor controller for stepper motor

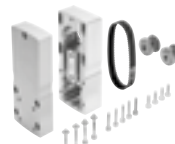


#### Motor mounting kit

Axial kit



Parallel kit



### Simplicity in one unit

This product is also available as a product unit as part of the Simplified Motion Series:



- The Simplified Motion Series combines the simplicity of pneumatics with the benefits of electric automation. The perfect solution for all users who are looking for an electric alternative for very simple movement and positioning tasks, but don't want the commissioning process for traditional electric drive systems that can often be quite complex.
- Simplified functionality for simple movements between two end positions
- A variety of movements with different mechanical systems
- Integrated products eliminate the need for a control cabinet
- Quick and easy commissioning without software or special expertise
- Digital I/O and IO-Link integrated as standard

## Characteristics

### From the individual axis to the complete handling system



- The toothed belt and spindle axes ELGC and mini slide EGSC form a scalable modular system for compact automation
- The shared platform architecture creates a consistent range with matching interfaces. A large number of systems can be realised entirely without adapter plates
- Powerful drive and guide components ensure a long service life, as well as excellent load capacity and reliability
- The uniform and universal range of accessories reduces warehousing and design costs
- Two position sensing functions can be selected:
  - With magneto-resistive proximity switches (detection via integrated magnets)
  - With inductive proximity switches (detection via switch lug)

### The products for the handling system

Spindle axis  
ELGC-BS



Toothed belt axis  
ELGC-TB



Guide axis  
ELFC



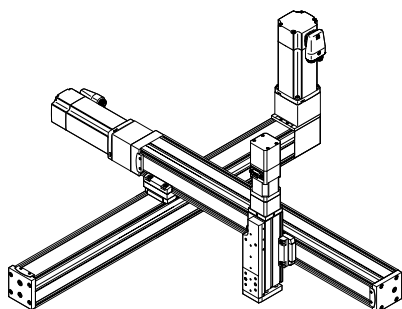
Mini slide  
EGSC



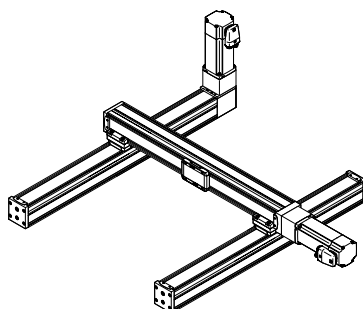
### Typical handling systems

For applications where compact dimensions are essential, the axes ELGC can be combined into very space-saving handling systems that are suitable for assembly systems, test and inspection systems, small parts handling, the electronics industry and desktop applications. The very compact linear axes ELGC, mini slide EGSC and electric cylinder EPCC offer an optimal ratio between installation space and working space. They feature a common system approach and platform architecture and the connections are largely adapterless.

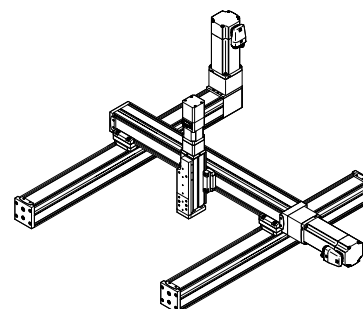
#### Cantilever system



#### Planar surface gantry



#### 3-dimensional gantry



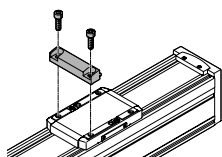
## Characteristics

**Matrix showing combinations between axis ELGC/ELGS-TB, ELGC/ELGS-BS, mini slide EGSC/EGSS-BS, electric cylinder EPCC/EPCS-BS and guide axis ELFC**

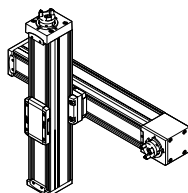
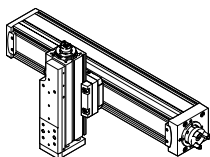
Mounting options with profile mounting and via angle kit

|                                                | Size | Assembly axis ELGC-BS/-TB; ELFC; EGSC-BS; EPCC-BS; ELGS-BS/-TB; EGSS-BS; EPCS-BS |    |    |    |
|------------------------------------------------|------|----------------------------------------------------------------------------------|----|----|----|
|                                                |      | 25                                                                               | 32 | 45 | 60 |
| Base axis<br>ELGC-BS/-TB; ELFC;<br>ELGS-BS/-TB | 32   | ■                                                                                | –  | –  | –  |
|                                                | 45   | –                                                                                | ■  | –  | –  |
|                                                | 60   | –                                                                                | –  | ■  | –  |
|                                                | 80   | –                                                                                | –  | –  | ■  |

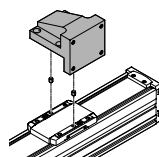
With profile mounting EAHF-L2-...-P-D...



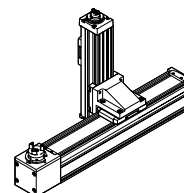
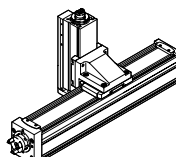
- Mounting option: base axis with one-size-down assembly axis



With angle kit EHAA-D-L2-...-AP



- Mounting option: base axis rotated through 90° with one-size-down assembly axis

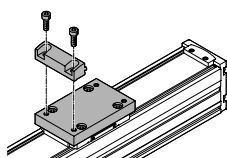


**Matrix showing combinations between axis ELGC/ELGS-TB, ELGC/ELGS-BS, mini slide EGSC/EGSS-BS, electric cylinder EPCC/EPCS-BS and guide axis ELFC**

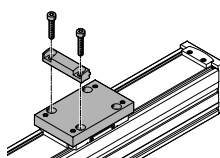
Assembly options with adapter kit

|                                                | Size | Assembly axis ELGC-BS/-TB; ELFC; EGSC-BS; EPCC-BS; ELGS-BS/-TB; EGSS-BS; EPCS-BS |    |    |    |    |
|------------------------------------------------|------|----------------------------------------------------------------------------------|----|----|----|----|
|                                                |      | 25                                                                               | 32 | 45 | 60 | 80 |
| Base axis<br>ELGC-BS/-TB; ELFC;<br>ELGS-BS/-TB | 32   | –                                                                                | ■  | –  | –  | –  |
|                                                | 45   | –                                                                                | –  | ■  | –  | –  |
|                                                | 60   | –                                                                                | –  | –  | ■  | –  |
|                                                | 80   | –                                                                                | –  | –  | –  | ■  |

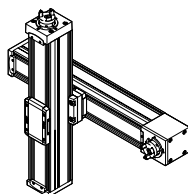
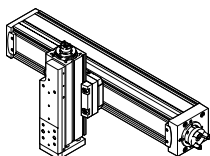
With adapter kit EHAA-D-L2



- Mounting option: base axis with the same size assembly axis



- Mounting option: base axis with height adjustment for one-size-down assembly axis
- When motors are mounted using parallel kits, this may lead to interfering contours. In this case, the adapter plate is required for height compensation

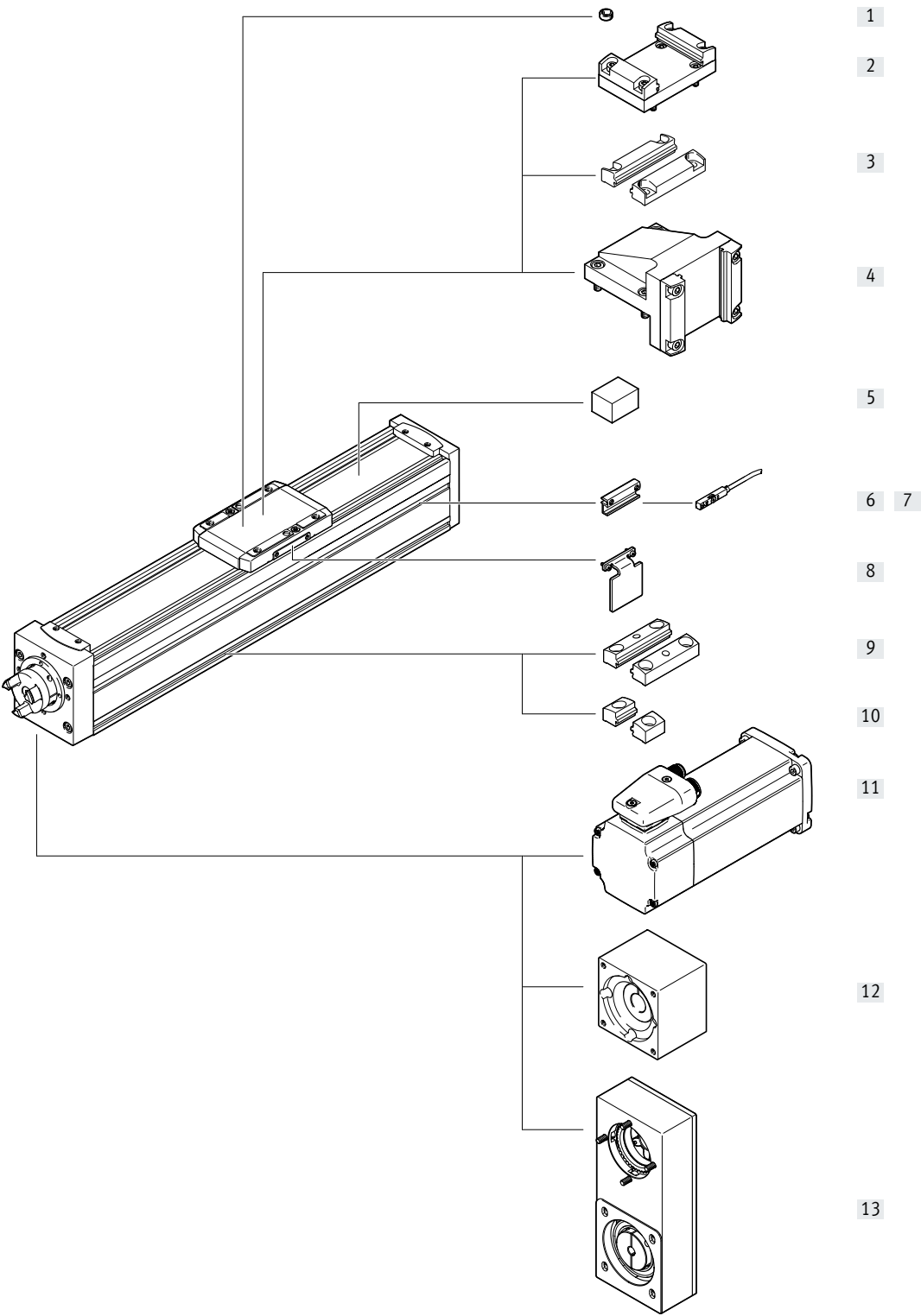


## Type codes

| 001  | Series                           |  |
|------|----------------------------------|--|
| ELGC | Gantry axis                      |  |
| 002  | Drive system                     |  |
| BS   | Ball screw drive                 |  |
| 003  | Guide                            |  |
| KF   | Recirculating ball bearing guide |  |
| 004  | Size                             |  |
| 32   | 32                               |  |
| 45   | 45                               |  |
| 60   | 60                               |  |
| 80   | 80                               |  |

| 005  | Stroke        |  |
|------|---------------|--|
| 100  | 100           |  |
| 200  | 200           |  |
| 300  | 300           |  |
| 400  | 400           |  |
| 500  | 500           |  |
| 600  | 600           |  |
| 800  | 800           |  |
| 1000 | 1000          |  |
| 006  | Spindle pitch |  |
| 8P   | 8 mm          |  |
| 10P  | 10 mm         |  |
| 12P  | 12 mm         |  |
| 16P  | 16 mm         |  |

Peripherals overview



## Peripherals overview

| Accessories                                |                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |                 |
|--------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------|
| Type                                       | Description                                                                                                                                                                                                                                                                                                                                                                                                                      |  | → Page/Internet |
| [1] Centring pin/sleeve<br>ZBS/ZBH         | For centring loads and attachments on the slide                                                                                                                                                                                                                                                                                                                                                                                  |  | 27              |
| [2] Adapter kit<br>EHAA-D-L2               | <ul style="list-style-type: none"> <li>For axis/axis mounting with adapter plate</li> <li>Mounting option: base axis with same size or one-size-down assembly axis (→ page 1)</li> <li>When motors are mounted using parallel kits, this may lead to interfering contours. In this case, the adapter plate is required for height compensation (download CAD data → <a href="http://www.festo.com">www.festo.com</a>)</li> </ul> |  | 24              |
| [3] Profile mounting<br>EAHF-L2-...-P-D... | <ul style="list-style-type: none"> <li>For axis/axis mounting without adapter plate</li> <li>Mounting option: base axis with one-size-down assembly axis (→ page 4)</li> </ul>                                                                                                                                                                                                                                                   |  | 23              |
| [4] Angle kit<br>EHAA-D-L2-...-AP          | For mounting one-size-down vertical axes (assembly axes) on base axes with mounting position "slide at top" (→ page 4)                                                                                                                                                                                                                                                                                                           |  | 25              |
| [5] Clamping element<br>EADT-S-L5-32       | Tool for retensioning the cover strip                                                                                                                                                                                                                                                                                                                                                                                            |  | 27              |
| [6] Sensor bracket<br>EAPM-L2-SH           | For mounting the proximity switches on the axis. The proximity switches can only be mounted using the sensor bracket                                                                                                                                                                                                                                                                                                             |  | 26              |
| [7] Proximity switches<br>SIES-8M          | Inductive proximity switches, for T-slot                                                                                                                                                                                                                                                                                                                                                                                         |  | 27              |
| Proximity switches<br>SMT-8M               | Magnetic proximity switches, for T-slot                                                                                                                                                                                                                                                                                                                                                                                          |  | 27              |
| [8] Switch lug<br>EAPM-L2-...-SLS          | For sensing the slide position in conjunction with inductive proximity switches SIES-8M                                                                                                                                                                                                                                                                                                                                          |  | 26              |
| [9] Profile mounting<br>EAHF-L2-...-P      | For mounting the axis on the side of the profile. The profile mounting can be attached to the mounting surface using the drilled hole in the centre                                                                                                                                                                                                                                                                              |  | 22              |
| [10] Profile mounting<br>EAHF-L2-...-P-S   | For mounting the axis on the side of the profile                                                                                                                                                                                                                                                                                                                                                                                 |  | 21              |
| [11] Motor<br>EMME-AS, EMMS-ST             | Motors specially matched to the axis, with or without brake                                                                                                                                                                                                                                                                                                                                                                      |  | 19              |
| [12] Axial kit<br>EAMM-A                   | For axial motor mounting                                                                                                                                                                                                                                                                                                                                                                                                         |  | 19              |
| [13] Parallel kit<br>EAMM-U                | For parallel motor mounting                                                                                                                                                                                                                                                                                                                                                                                                      |  | 20              |

## Sealing air connection



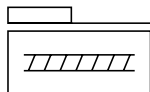
Air is exchanged between the interior of the cylinder and the environment via a sealing air connection. This prevents negative pressure or overpressure arising in the interior of the cylinder.

Additional functions of the connection:

- Application of slight negative pressure prevents emission of particles
- Application of slight overpressure prevents immission of particles

Suitable push-in fittings → page 27

## Data sheet



-  - Size  
32 ... 80
-  - Stroke length  
100 ... 1000 mm
-  - [www.festo.com](http://www.festo.com)



| General technical data                    |                                              |                                   |                                   |                                         |
|-------------------------------------------|----------------------------------------------|-----------------------------------|-----------------------------------|-----------------------------------------|
| Size                                      | 32                                           | 45                                | 60                                | 80                                      |
| Design                                    | Electromechanical axis with ball screw drive |                                   |                                   |                                         |
| Guide                                     | Recirculating ball bearing guide             |                                   |                                   |                                         |
| Mounting position                         | Any                                          |                                   |                                   |                                         |
| Working stroke [mm]                       | 100, 200, 300, 400, 500, 600, 800            | 100, 200, 300, 400, 500, 600, 800 | 100, 200, 300, 400, 500, 600, 800 | 100, 200, 300, 400, 500, 600, 800, 1000 |
| Max. feed force $F_x$ [N]                 | 40                                           | 100                               | 200                               | 350                                     |
| No-load torque at [Nm]                    | 0.02                                         | 0.032                             | 0.042                             | 0.095                                   |
| Low travel speed [m/s]                    | 0.05                                         | 0.05                              | 0.05                              | 0.05                                    |
| No-load torque at [Nm]                    | 0.04                                         | 0.12                              | 0.25                              | 0.40                                    |
| Max. travel speed [m/s]                   | 0.6                                          | 0.6                               | 0.8                               | 1                                       |
| Max. radial force <sup>1)</sup> [N]       | 75                                           | 180                               | 230                               | 400                                     |
| Max. rotational speed <sup>2)</sup> [rpm] | 4500                                         | 3600                              | 4000                              | 3750                                    |
| Max. acceleration [m/s <sup>2</sup> ]     | 15                                           |                                   |                                   |                                         |
| Repetition accuracy [mm]                  | ±0.015                                       | ±0.015                            | ±0.01                             | ±0.01                                   |
| Reversing backlash [mm]                   | ≤ 0.15                                       |                                   |                                   |                                         |
| Position sensing                          | Magneto-resistive, inductive                 |                                   |                                   |                                         |

1) At the driving shaft

2) Rotational speed and travel speed are stroke-dependent

| Operating and environmental conditions |                       |
|----------------------------------------|-----------------------|
| Ambient temperature <sup>1)</sup> [°C] | 0 ... +50             |
| Degree of protection                   | IP40                  |
| Duty cycle [%]                         | 100                   |
| Maintenance interval                   | Life-time lubrication |

1) Note operating range of proximity switches

| Weight [g]                                  |     |     |      |      |
|---------------------------------------------|-----|-----|------|------|
| Size                                        | 32  | 45  | 60   | 80   |
| Basic weight with 0 mm stroke <sup>1)</sup> | 296 | 724 | 1682 | 2942 |
| Additional weight per 10 mm stroke          | 18  | 36  | 51   | 88   |
| Moving mass                                 | 83  | 220 | 525  | 978  |

1) Incl. slide

## Data sheet

| Spindle  |          |    |    |    |    |
|----------|----------|----|----|----|----|
| Size     |          | 32 | 45 | 60 | 80 |
| Diameter | [mm]     | 8  | 10 | 12 | 16 |
| Pitch    | [mm/rev] | 8  | 10 | 12 | 16 |

| Mass moment of inertia          |                          |       |       |        |        |
|---------------------------------|--------------------------|-------|-------|--------|--------|
| Size                            |                          | 32    | 45    | 60     | 80     |
| J <sub>0</sub>                  | [kg mm <sup>2</sup> ]    | 0.274 | 0.820 | 2.235  | 7.856  |
| J <sub>H</sub> per metre stroke | [kg mm <sup>2</sup> /m]  | 2.218 | 5.056 | 10.779 | 35.257 |
| J <sub>L</sub> per kg payload   | [kg mm <sup>2</sup> /kg] | 1.621 | 2.533 | 3.648  | 6.485  |

The mass moment of inertia  $J_{rot}$  of the rotating parts of the axis is calculated as follows:

$$J_{rot} = J_0 + J_H \times \text{working stroke [m]}$$

## Homing

Homing can be carried out in two ways:

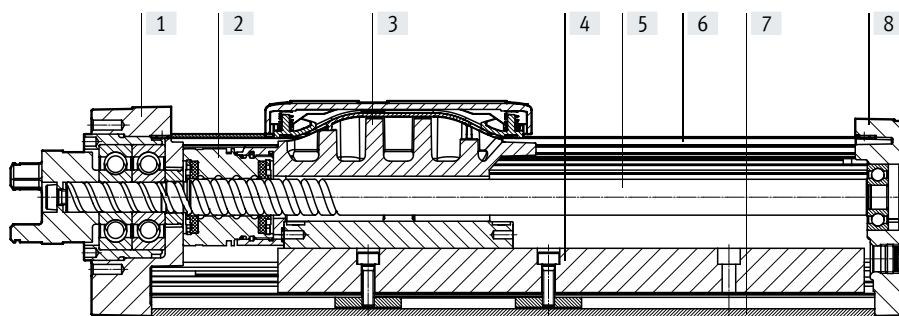
- Against a fixed stop
- Using a reference switch

The following values must be observed:

|                      |       |                       |                      |                    |                    |
|----------------------|-------|-----------------------|----------------------|--------------------|--------------------|
| Size                 |       | 32                    | 45                   | 60                 | 80                 |
| Max. impact energy   | [J]   | $0.25 \times 10^{-3}$ | $0.5 \times 10^{-3}$ | $1 \times 10^{-3}$ | $2 \times 10^{-3}$ |
| At max. homing speed | [m/s] | 0.01                  |                      |                    |                    |

## Materials

Sectional view

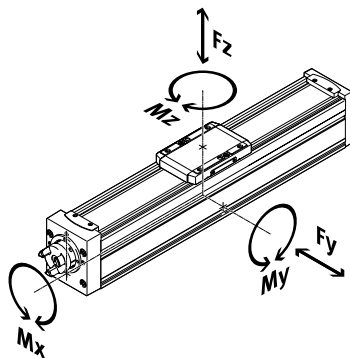


| Axis              |             |                                              |
|-------------------|-------------|----------------------------------------------|
| [1]               | Drive cover | Painted die-cast aluminium                   |
| [2]               | Spindle nut | Steel                                        |
| [3]               | Slide       | Die-cast aluminium                           |
| [4]               | Guide       | Steel                                        |
| [5]               | Spindle     | Steel                                        |
| [6]               | Cover strip | High-alloy stainless steel                   |
| [7]               | Profile     | Anodised wrought aluminium alloy             |
| [8]               | End cap     | Painted die-cast aluminium                   |
| Note on materials |             | RoHS-compliant                               |
|                   |             | Contains paint-wetting impairment substances |

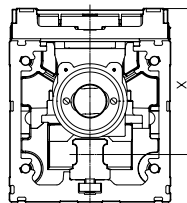
## Data sheet

### Characteristic load values

The indicated forces and torques refer to the centre of the guide. The point of application of force is the point where the centre of the guide and the longitudinal centre of the slide intersect. These values must not be exceeded during dynamic operation. Special attention must be paid to the deceleration phase.



Distance from the slide surface to the centre of the guide



| Max. permissible forces and torques on the slide (strength limits) |      |     |     |      |      |
|--------------------------------------------------------------------|------|-----|-----|------|------|
| Size                                                               |      | 32  | 45  | 60   | 80   |
| $F_{y_{max}}$                                                      | [N]  | 150 | 300 | 600  | 900  |
| $F_{z_{max}}$                                                      | [N]  | 300 | 600 | 1800 | 2700 |
| $M_{x_{max}}$                                                      | [Nm] | 1.3 | 5.5 | 29.1 | 59.8 |
| $M_{y_{max}}$                                                      | [Nm] | 1.1 | 4.7 | 31.8 | 56.2 |
| $M_{z_{max}}$                                                      | [Nm] | 1.1 | 4.7 | 31.8 | 56.2 |

| Distance from the slide surface to the centre of the guide |      |      |      |      |      |
|------------------------------------------------------------|------|------|------|------|------|
| Size                                                       |      | 32   | 45   | 60   | 80   |
| Dimension x                                                | [mm] | 31.4 | 42.8 | 54.6 | 72.5 |

| Max. permissible forces and torques for the guide calculation, for a service life of 5000 km or 5x 10 <sup>6</sup> cycles |      |     |     |      |      |
|---------------------------------------------------------------------------------------------------------------------------|------|-----|-----|------|------|
| Size                                                                                                                      |      | 32  | 45  | 60   | 80   |
| F <sub>y</sub> <sub>max.</sub>                                                                                            | [N]  | 356 | 880 | 3641 | 5543 |
| F <sub>z</sub> <sub>max.</sub>                                                                                            | [N]  | 356 | 880 | 3641 | 5543 |
| M <sub>x</sub> <sub>max.</sub>                                                                                            | [Nm] | 1.3 | 5.5 | 29.1 | 59.8 |
| M <sub>y</sub> <sub>max.</sub>                                                                                            | [Nm] | 1.1 | 4.7 | 31.8 | 56.2 |
| M <sub>z</sub> <sub>max.</sub>                                                                                            | [Nm] | 1.1 | 4.7 | 31.8 | 56.2 |

### Note

For a guide system to have a service life of 5000 km, the load comparison factor must have a value of  $f_v \leq 1$ , based on the maximum permissible forces and torques for a service life of 5000 km.

This formula can be used to calculate a guide value.

The engineering software "PositioningDrives" is available for more precise calculations → [www.festo.com](http://www.festo.com)

If the axis is subjected to two or more of the indicated forces and torques simultaneously, the following equation must be satisfied in addition to the indicated maximum loads:

Calculating the load comparison factor:

$$f_v = \frac{|F_{y1}|}{F_{y2}} + \frac{|F_{z1}|}{F_{z2}} + \frac{|M_{x1}|}{M_{x2}} + \frac{|M_{y1}|}{M_{y2}} + \frac{|M_{z1}|}{M_{z2}} \leq 1$$

$F_1/M_1$  = dynamic value

$F_2/M_2$  = maximum value

## Data sheet

### Calculating the service life

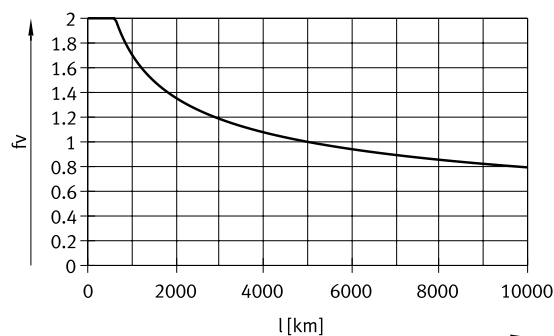
The service life of the guide depends on the load. To be able to make a statement as to the service life of the guide, the graph below plots the load comparison factor  $f_v$  against the service life.

These values are only theoretical. You must consult your local Festo contact for a load comparison factor  $f_v$  greater than 1.

#### Load comparison factor $f_v$ as a function of service life $l$

Example:

A user wants to move an  $x$  kg load. Using the formula (→ page 10) gives a value of 1.5 for the load comparison factor  $f_v$ . According to the graph, the guide would have a service life of approx. 1500 km. Reducing the acceleration reduces the  $M_y$  and  $M_z$  values. A load comparison factor  $f_v$  of 1 now gives a service life of 5000 km.



### Comparison of the characteristic load values for 5000 km with dynamic forces and torques of recirculating ball bearing guides

The characteristic load values of the bearing guides are standardised to ISO and JIS using dynamic and static forces and torques. These forces and torques are based on an expected service life of the guide system of 100 km according to ISO or 50 km according to JIS.

As the characteristic load values are dependent on the service life, the maximum permissible forces and torques for a 5000 km service life cannot be compared with the dynamic forces and torques of bearing guides to ISO/JIS.

To make it easier to compare the guide capacity of linear axes ELGC with bearing guides, the table below lists the theoretically permissible forces and torques for a calculated service life of 100 km. This corresponds to the dynamic forces and torques to ISO.

These 100 km values have been calculated mathematically and are only to be used for comparing with dynamic forces and torques to ISO. The drives must not be loaded with these characteristic values as this could damage the axes.

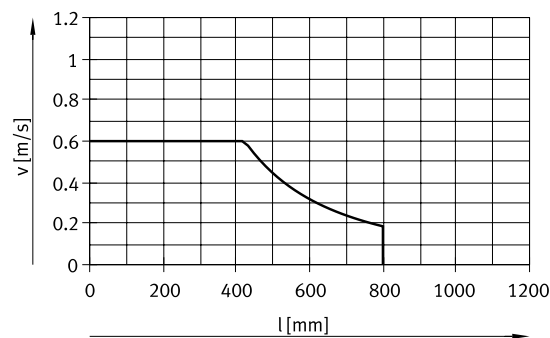
#### Max. permissible forces and torques for a theoretical service life of 100 km (from a guide perspective only)

| Size               | 32   | 45   | 60    | 80    |
|--------------------|------|------|-------|-------|
| $F_{y_{max}}$ [N]  | 1310 | 3240 | 13400 | 20400 |
| $F_{z_{max}}$ [N]  | 1310 | 3240 | 13400 | 20400 |
| $M_{x_{max}}$ [Nm] | 5    | 20   | 107   | 220   |
| $M_{y_{max}}$ [Nm] | 4    | 17   | 117   | 207   |
| $M_{z_{max}}$ [Nm] | 4    | 17   | 117   | 207   |

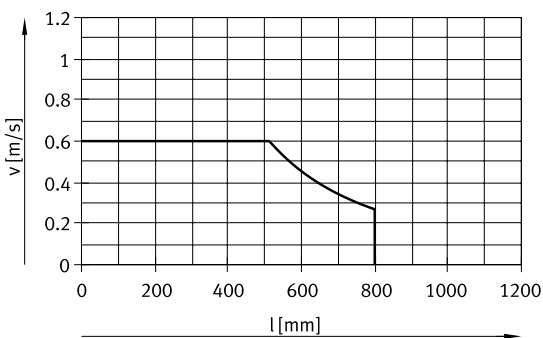
Data sheet

Speed  $v$  as a function of working stroke  $l$

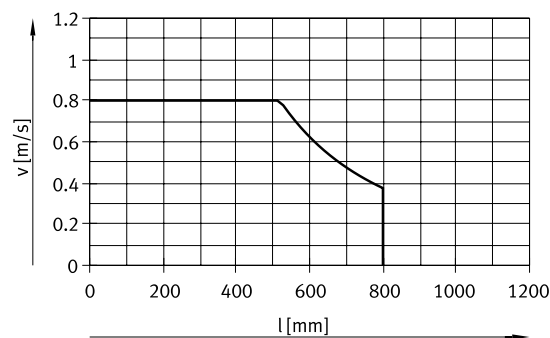
Size 32



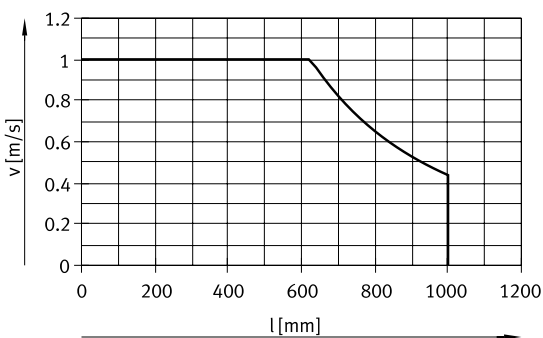
Size 45



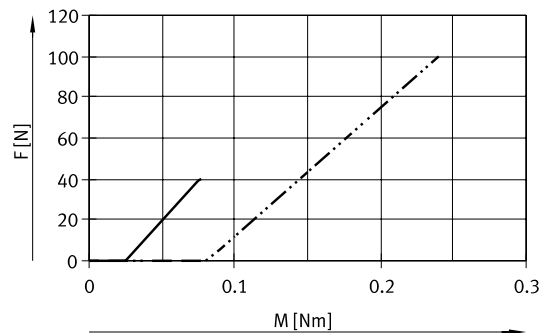
Size 60



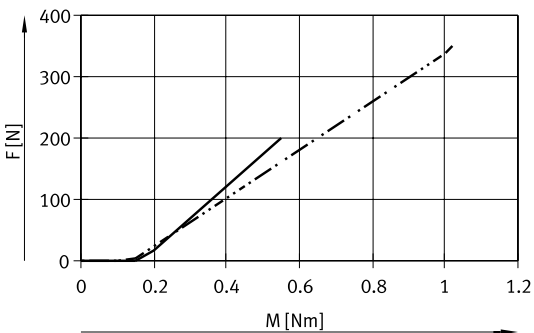
Size 80



Feed force  $F$  as a function of input torque  $M$



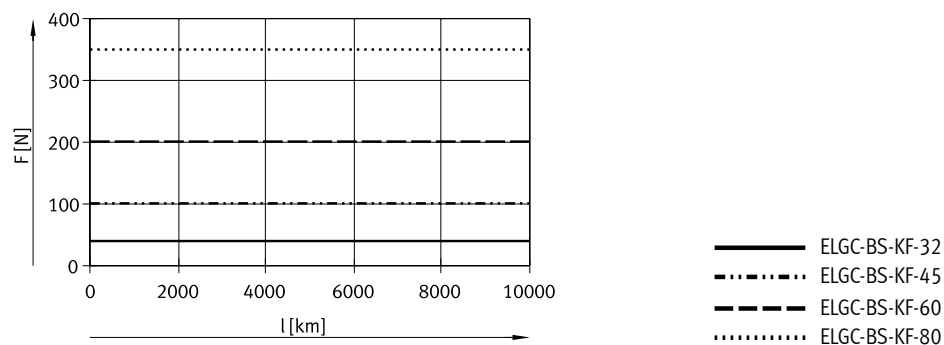
— ELGC-BS-KF-32  
- · - · - ELGC-BS-KF-45



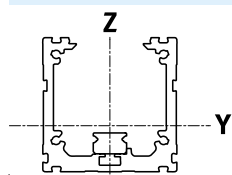
— ELGC-BS-KF-60  
- · - · - ELGC-BS-KF-80

## Data sheet

## Feed force F as a function of service life l



## 2nd moments of area



| Size           |                    | 32                 | 45                  | 60                  | 80                   |
|----------------|--------------------|--------------------|---------------------|---------------------|----------------------|
| I <sub>y</sub> | [mm <sup>4</sup> ] | 38x10 <sup>3</sup> | 140x10 <sup>3</sup> | 441x10 <sup>3</sup> | 1.37x10 <sup>6</sup> |
| I <sub>z</sub> | [mm <sup>4</sup> ] | 45x10 <sup>3</sup> | 170x10 <sup>3</sup> | 542x10 <sup>3</sup> | 1.66x10 <sup>6</sup> |

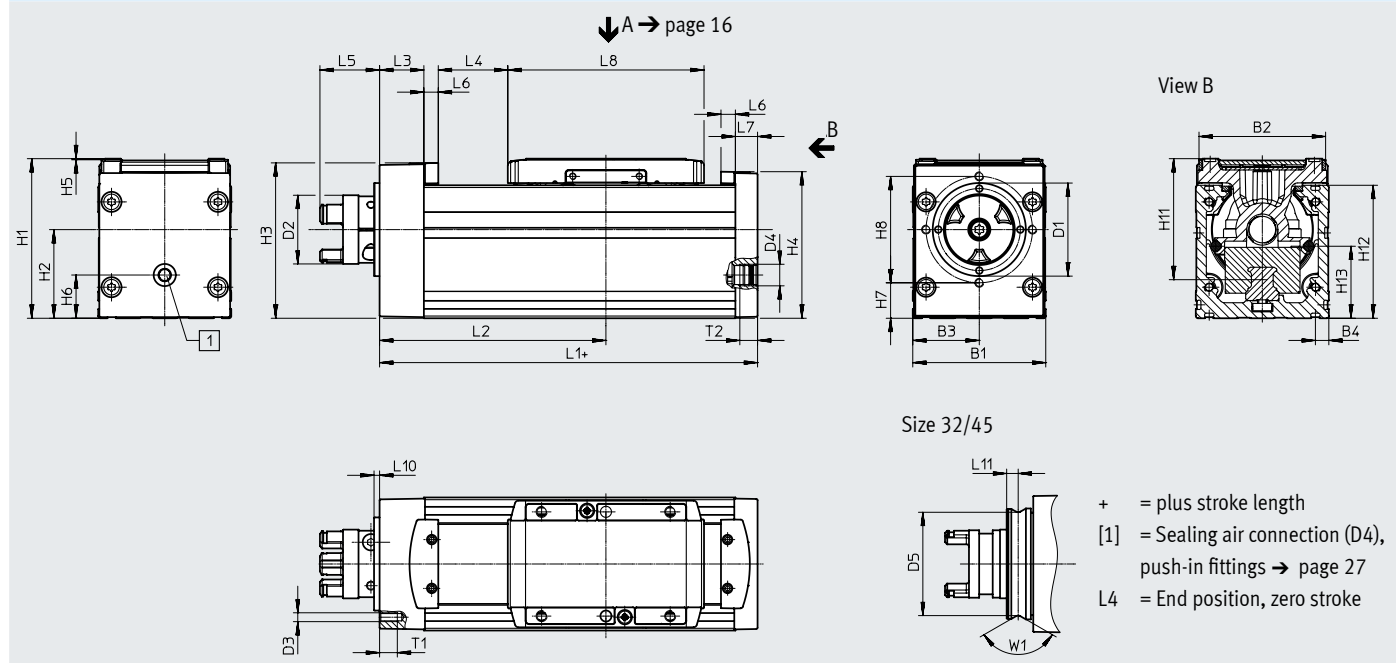
## Recommended deflection limits

Adherence to the following deflection limits is recommended so as not to impair the functionality of the axes. Greater deformation can result in increased friction, greater wear and reduced service life.

| Size      | Dynamic deflection<br>(moving load)   | Static deflection<br>(stationary load) |
|-----------|---------------------------------------|----------------------------------------|
| 32 ... 80 | 0.05% of the axis length, max. 0.5 mm | 0.1% of the axis length                |

# Data sheet

## Dimensions

Download CAD data → [www.festo.com](http://www.festo.com)


| Size | B1 | B2   | B3   | B4  | D1<br>Ø | D2<br>Ø | D3 | D4   | D5<br>Ø | H1   | H2   |
|------|----|------|------|-----|---------|---------|----|------|---------|------|------|
| 32   | 32 | 29.6 | 16   | 4.9 | 25      | 16.5    | –  | M5   | 23      | 38.5 | 20   |
| 45   | 45 | 42.6 | 22.5 | 6.1 | 32      | 16.5    | –  | G1/8 | 29.6    | 54   | 27.9 |
| 60   | 60 | 57.1 | 30   | 6.1 | 42      | 31      | M4 | G1/8 | –       | 72   | 40   |
| 80   | 80 | 77.1 | 40   | 6.1 | 46      | 31      | M6 | G1/8 | –       | 96   | 50   |

| Size | H3   | H4   | H5  | H6   | H7   | H8 | H11  | H12 | H13  | L1    | L2<br>min. |
|------|------|------|-----|------|------|----|------|-----|------|-------|------------|
| 32   | 36.3 | 35.6 | 0.3 | 8    | –    | –  | 31.4 | 32  | 13.7 | 104.5 | 57.9       |
| 45   | 50.8 | 49.6 | 0.5 | 12.5 | –    | –  | 42.8 | 45  | 18.5 | 134.3 | 79.7       |
| 60   | 70.1 | 66.1 | 0.5 | 19.5 | 16   | 48 | 54.6 | 60  | 32.5 | 170.5 | 102.1      |
| 80   | 90.6 | 88.1 | 0.5 | 20   | 17.5 | 65 | 72.5 | 80  | 41.5 | 198.5 | 119.6      |

| Size | L3   | L4   | L5   | L6  | L7 | L8   | L10 | L11 | T1 | T2  | W1   |
|------|------|------|------|-----|----|------|-----|-----|----|-----|------|
| 32   | 10.5 | 13.4 | 19.9 | 4.5 | 5  | 59   | 6   | 2.6 | –  | 5.5 | 120° |
| 45   | 14.8 | 24.6 | 19.9 | 6.5 | 7  | 67.5 | 6   | 2.9 | –  | 8   | 90°  |
| 60   | 20   | 31.4 | 26.9 | 6.5 | 10 | 88.5 | 2.5 | –   | 8  | 8   | –    |
| 80   | 21   | 39.1 | 25.9 | 6.5 | 12 | 106  | 2.5 | –   | 15 | 8   | –    |

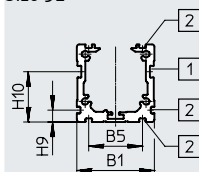
# Data sheet

## Dimensions

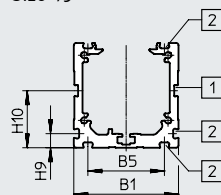
Download CAD data → [www.festo.com](http://www.festo.com)

### Profile

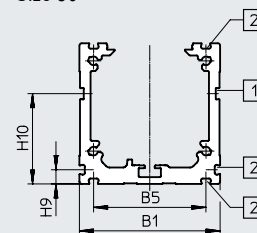
Size 32



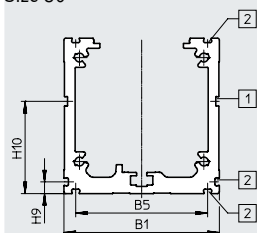
Size 45



Size 60



Size 80



- [1] = Slot for sensor bracket
- [2] = mounting slot

| Size | B1 | B5   | H9  | H10  |
|------|----|------|-----|------|
| 32   | 32 | 22.2 | 4.9 | 20.8 |
| 45   | 45 | 32.9 | 6.1 | 24.5 |
| 60   | 60 | 47.9 | 6.1 | 38.5 |
| 80   | 80 | 67.9 | 6.1 | 47.5 |

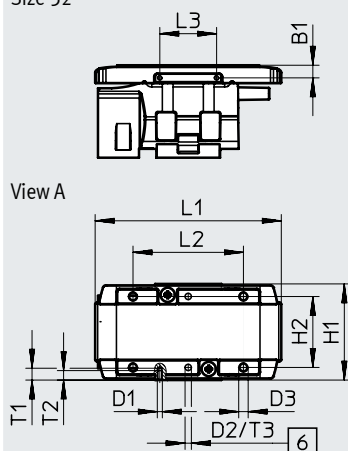
# Data sheet

## Dimensions

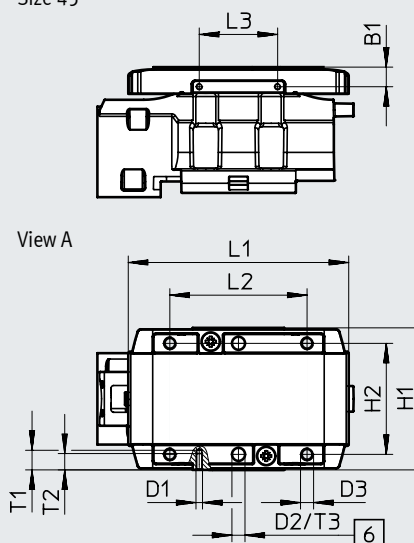
Download CAD data → [www.festo.com](http://www.festo.com)

Slide

Size 32



Size 45



[6] Drill hole for centring pin ZBS

| Size | B1        | D1   | D2<br>Ø<br>H8 | D3 | H1           | H2<br>±0.1<br>For D2 ±0.03 |
|------|-----------|------|---------------|----|--------------|----------------------------|
| 32   | ±0.1<br>4 | M1.6 | 2             | M3 | ±0.1<br>30.5 | 22.5                       |
| 45   | 6         | M2   | 4             | M4 | 43.5         | 34                         |

| Size | L1   | L2<br>±0.1 | L3<br>±0.1 | T1  | T2 | T3<br>+0.1 | T4 <sup>1)</sup> |
|------|------|------------|------------|-----|----|------------|------------------|
| 32   | 59   | 35         | 18         | 3.8 | 3  | 3.1        | 4 ... 5          |
| 45   | 67.5 | 42         | 24         | 6   | 5  | 3.1        | 6 ... 7.5        |

1) Recommended screw-in depth

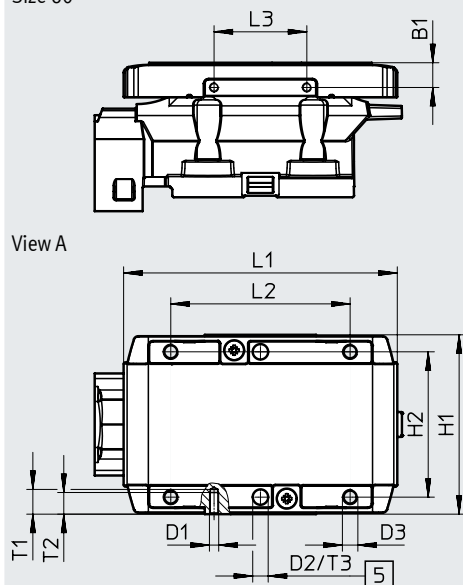
# Data sheet

## Dimensions

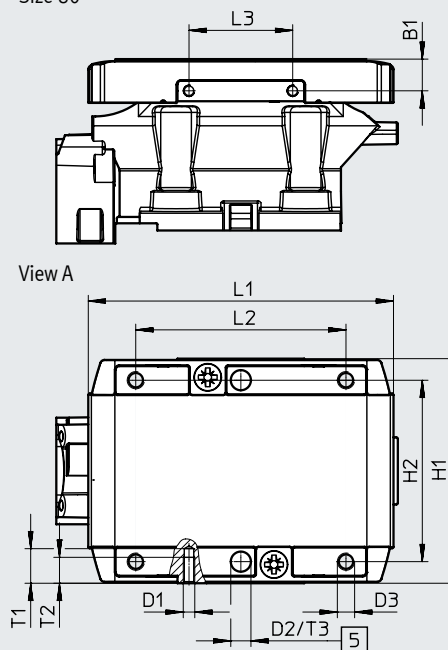
Download CAD data → [www.festo.com](http://www.festo.com)

Slide

Size 60



Size 80



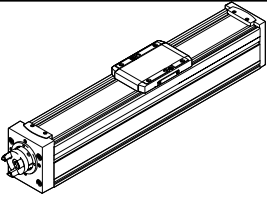
[5] Drilled hole for centring pin ZBH

| Size | B1<br>±0.1 | D1 | D2<br>Ø<br>H8 | D3 | H1<br>±0.1 | H2<br>±0.1<br>For D2 ±0.03 |
|------|------------|----|---------------|----|------------|----------------------------|
| 60   | 8          | M3 | 5             | M5 | 58         | 47                         |
| 80   | 11         | M4 | 7             | M6 | 78         | 63                         |

| Size | L1   | L2<br>±0.1 | L3<br>±0.1 | T1 | T2 | T3<br>+0.1 | T4 <sup>1)</sup> |
|------|------|------------|------------|----|----|------------|------------------|
| 60   | 88.5 | 58         | 30         | 9  | 7  | 1.3        | 8.5 ... 10       |
| 80   | 106  | 73         | 36         | 12 | 9  | 1.6        | 11 ... 14        |

1) Recommended screw-in depth

# Data sheet

| Ordering data                                                                    |      |                   |                |          |                        |
|----------------------------------------------------------------------------------|------|-------------------|----------------|----------|------------------------|
|                                                                                  | Size | Pitch<br>[mm/rev] | Stroke<br>[mm] | Part no. | Type                   |
|  | 32   | 8                 | 100            | 8061477  | ELGC-BS-KF-32-100-8P   |
|                                                                                  |      |                   | 200            | 8061478  | ELGC-BS-KF-32-200-8P   |
|                                                                                  |      |                   | 300            | 8061479  | ELGC-BS-KF-32-300-8P   |
|                                                                                  |      |                   | 400            | 8061480  | ELGC-BS-KF-32-400-8P   |
|                                                                                  |      |                   | 500            | 8061481  | ELGC-BS-KF-32-500-8P   |
|                                                                                  |      |                   | 600            | 8061482  | ELGC-BS-KF-32-600-8P   |
|                                                                                  |      |                   | 800            | 8061483  | ELGC-BS-KF-32-800-8P   |
|                                                                                  | 45   | 10                | 100            | 8061484  | ELGC-BS-KF-45-100-10P  |
|                                                                                  |      |                   | 200            | 8061485  | ELGC-BS-KF-45-200-10P  |
|                                                                                  |      |                   | 300            | 8061486  | ELGC-BS-KF-45-300-10P  |
|                                                                                  |      |                   | 400            | 8061487  | ELGC-BS-KF-45-400-10P  |
|                                                                                  |      |                   | 500            | 8061488  | ELGC-BS-KF-45-500-10P  |
|                                                                                  |      |                   | 600            | 8061489  | ELGC-BS-KF-45-600-10P  |
|                                                                                  |      |                   | 800            | 8061490  | ELGC-BS-KF-45-800-10P  |
|                                                                                  | 60   | 12                | 100            | 8061491  | ELGC-BS-KF-60-100-12P  |
|                                                                                  |      |                   | 200            | 8061492  | ELGC-BS-KF-60-200-12P  |
|                                                                                  |      |                   | 300            | 8061493  | ELGC-BS-KF-60-300-12P  |
|                                                                                  |      |                   | 400            | 8061494  | ELGC-BS-KF-60-400-12P  |
|                                                                                  |      |                   | 500            | 8061495  | ELGC-BS-KF-60-500-12P  |
|                                                                                  |      |                   | 600            | 8061496  | ELGC-BS-KF-60-600-12P  |
|                                                                                  |      |                   | 800            | 8061497  | ELGC-BS-KF-60-800-12P  |
|                                                                                  | 80   | 16                | 100            | 8061498  | ELGC-BS-KF-80-100-16P  |
|                                                                                  |      |                   | 200            | 8061499  | ELGC-BS-KF-80-200-16P  |
|                                                                                  |      |                   | 300            | 8061500  | ELGC-BS-KF-80-300-16P  |
|                                                                                  |      |                   | 400            | 8061501  | ELGC-BS-KF-80-400-16P  |
|                                                                                  |      |                   | 500            | 8061502  | ELGC-BS-KF-80-500-16P  |
|                                                                                  |      |                   | 600            | 8061503  | ELGC-BS-KF-80-600-16P  |
|                                                                                  |      |                   | 800            | 8061504  | ELGC-BS-KF-80-800-16P  |
|                                                                                  |      |                   | 1000           | 8061505  | ELGC-BS-KF-80-1000-16P |

## Accessories

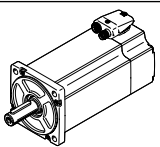
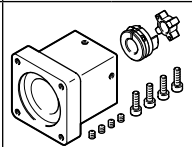
**Note**

Depending on the combination of motor and drive, it may not be possible to reach the maximum feed force of the drive.

When using parallel kits, the no-load driving torque of the particular kit must be taken into consideration.

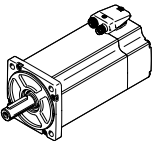
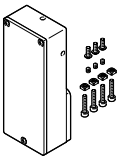
**Permissible axis/motor combinations with axial kit – Without gear unit**

Data sheets → Internet: eamm-a

| Motor <sup>1)</sup>                                                               | Axial kit                                                                         |                 |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------|
|  |  |                 |
| Type                                                                              | Part no.                                                                          | Type            |
| <b>ELGC-BS-KF-32</b>                                                              |                                                                                   |                 |
| <b>With servo motor</b>                                                           |                                                                                   |                 |
| EMME-AS-40-...                                                                    | 4491059                                                                           | EAMM-A-V25-40P  |
| <b>With stepper motor</b>                                                         |                                                                                   |                 |
| EMMS-ST-42-...                                                                    | 4582608                                                                           | EAMM-A-V25-42A  |
| <b>ELGC-BS-KF-45</b>                                                              |                                                                                   |                 |
| <b>With servo motor</b>                                                           |                                                                                   |                 |
| EMME-AS-40-...                                                                    | 4595742                                                                           | EAMM-A-V32-40P  |
| EMME-AS-60-...                                                                    | 4608750                                                                           | EAMM-A-V32-60P  |
| <b>With stepper motor</b>                                                         |                                                                                   |                 |
| EMMS-ST-42-...                                                                    | 4281142                                                                           | EAMM-A-V32-42A  |
| EMMS-ST-57-...                                                                    | 4597016                                                                           | EAMM-A-V32-57A  |
| <b>ELGC-BS-KF-60</b>                                                              |                                                                                   |                 |
| <b>With servo motor</b>                                                           |                                                                                   |                 |
| EMME-AS-60-...                                                                    | 4133487                                                                           | EAMM-A-T42-60P  |
| EMME-AS-80-...                                                                    | 4623788                                                                           | EAMM-A-T42-80P  |
| <b>With stepper motor</b>                                                         |                                                                                   |                 |
| EMMS-ST-57-...                                                                    | 4327034                                                                           | EAMM-A-T42-57A  |
| EMMS-ST-87-...                                                                    | 4610008                                                                           | EAMM-A-T42-87A  |
| <b>ELGC-BS-KF-80</b>                                                              |                                                                                   |                 |
| <b>With servo motor</b>                                                           |                                                                                   |                 |
| EMME-AS-60-...                                                                    | 4824833                                                                           | EAMM-A-T46-60P  |
| EMME-AS-80-...                                                                    | 4624170                                                                           | EAMM-A-T46-80P  |
| EMME-AS-100-...                                                                   | 4624227                                                                           | EAMM-A-T46-100A |
| EMMS-AS-100-...                                                                   | 4624227                                                                           | EAMM-A-T46-100A |
| <b>With stepper motor</b>                                                         |                                                                                   |                 |
| EMMS-ST-87-...                                                                    | 4048771                                                                           | EAMM-A-T46-87A  |

1) The input torque must not exceed the max. permissible transferable torque of the axial kit.

## Accessories

| Permissible axis/motor combinations with parallel kit                            |                                                                                                                            | Data sheets → Internet: eamm-u |  |
|----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|--------------------------------|--|
| Motor/gear unit <sup>1)</sup>                                                    | Parallel kit                                                                                                               |                                |  |
|  |  The kit can be mounted in all directions |                                |  |
| Type                                                                             | Part no.                                                                                                                   | Type                           |  |
| <b>ELGC-BS-KF-32</b>                                                             |                                                                                                                            |                                |  |
| <b>With servo motor</b>                                                          |                                                                                                                            |                                |  |
| EMME-AS-40-...                                                                   | 4782056                                                                                                                    | EAMM-U-45-V25-40P-63           |  |
| <b>With stepper motor</b>                                                        |                                                                                                                            |                                |  |
| EMMS-ST-42-...                                                                   | 4825645                                                                                                                    | EAMM-U-45-V25-42A-63           |  |
| <b>ELGC-BS-KF-45</b>                                                             |                                                                                                                            |                                |  |
| <b>With servo motor</b>                                                          |                                                                                                                            |                                |  |
| EMME-AS-40-...                                                                   | 4718297                                                                                                                    | EAMM-U-45-V32-40P-63           |  |
| <b>With stepper motor</b>                                                        |                                                                                                                            |                                |  |
| EMMS-ST-42-...                                                                   | 4280674                                                                                                                    | EAMM-U-45-V32-42A-63           |  |
| <b>ELGC-BS-KF-60</b>                                                             |                                                                                                                            |                                |  |
| <b>With servo motor</b>                                                          |                                                                                                                            |                                |  |
| EMMS-AS-55-...                                                                   | 8092868                                                                                                                    | EAMM-U-65-T42-55A-87           |  |
| EMME-AS-60-...                                                                   | 4784301                                                                                                                    | EAMM-U-65-T42-60P-87           |  |
| <b>With stepper motor</b>                                                        |                                                                                                                            |                                |  |
| EMMS-ST-57-...                                                                   | 4331535                                                                                                                    | EAMM-U-65-T42-57A-87           |  |
| <b>ELGC-BS-KF-80</b>                                                             |                                                                                                                            |                                |  |
| <b>With servo motor</b>                                                          |                                                                                                                            |                                |  |
| EMME-AS-60-...                                                                   | 4824069                                                                                                                    | EAMM-U-87-T46-60P-114          |  |
| EMME-AS-80-...                                                                   | 4822696                                                                                                                    | EAMM-U-87-T46-80P-114          |  |
| <b>With stepper motor</b>                                                        |                                                                                                                            |                                |  |
| EMMS-ST-87-...                                                                   | 4819278                                                                                                                    | EAMM-U-87-T46-87A-114          |  |

1) The input torque must not exceed the max. permissible transferable torque of the parallel kit.

## Accessories

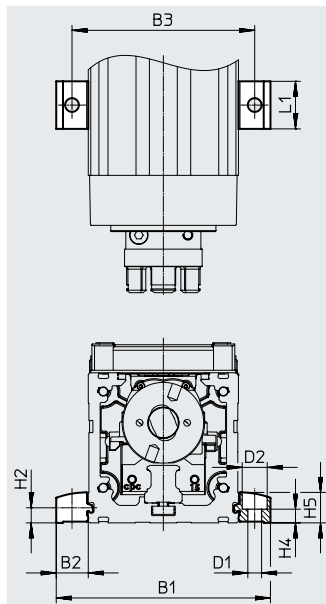
### Profile mounting EAHF-L2-...-P-S

Material:

Anodised wrought aluminium alloy

RoHS-compliant

- For mounting the axis on the side of the profile



| Dimensions and ordering data |       |      |    |                |                |     |
|------------------------------|-------|------|----|----------------|----------------|-----|
| For size                     | B1    | B2   | B3 | D1<br>Ø<br>H13 | D2<br>Ø<br>H13 | H2  |
| 32                           | 51.4  | 9.7  | 42 | 4.5            | 8              | 4.9 |
| 45                           | 70.6  | 12.8 | 58 | 5.5            | 10             | 6.1 |
| 60                           | 85.6  | 12.8 | 73 | 5.5            | 10             | 6.1 |
| 80                           | 105.6 | 12.8 | 93 | 5.5            | 10             | 6.1 |

| For size | H4<br>±0.1 | H5   | L1 | Weight<br>[g] | Part no. | Type           |
|----------|------------|------|----|---------------|----------|----------------|
| 32       | 4.2        | 9    | 19 | 4             | 5183153  | EAHF-L2-25-P-S |
| 45       | 5.5        | 12.2 | 19 | 6             | 5184133  | EAHF-L2-45-P-S |
| 60       | 5.5        | 12.2 | 19 | 6             | 5184133  | EAHF-L2-45-P-S |
| 80       | 5.5        | 12.2 | 19 | 6             | 5184133  | EAHF-L2-45-P-S |

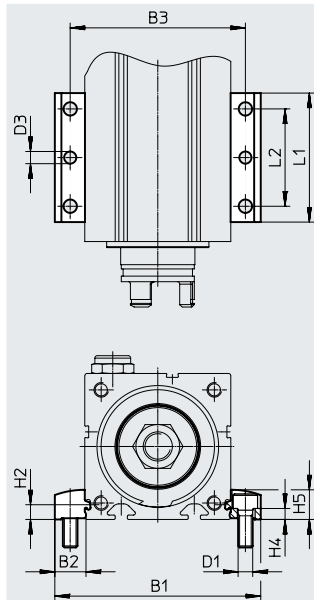
## Accessories

### Profile mounting EAHF-L2-...-P

Material:

Anodised wrought aluminium alloy

RoHS-compliant



- For mounting the axis on the side of the profile.

The profile mounting can be attached to the mounting surface using the drill hole in the centre.

| Dimensions and ordering data |       |      |    |                |                |         |     |
|------------------------------|-------|------|----|----------------|----------------|---------|-----|
| For size                     | B1    | B2   | B3 | D1<br>Ø<br>H13 | D2<br>Ø<br>H13 | D3<br>Ø | H2  |
| 32                           | 51.4  | 9.7  | 42 | 4.5            | 8              | 4       | 4.9 |
| 45                           | 70.6  | 12.8 | 58 | 5.5            | 10             | 5       | 6.1 |
| 60                           | 85.6  | 12.8 | 73 | 5.5            | 10             | 5       | 6.1 |
| 80                           | 105.6 | 12.8 | 93 | 5.5            | 10             | 5       | 6.1 |

| For size | H4<br>±0.1 | H5   | L1 | L2 | Weight<br>[g] | Part no. | Type         |
|----------|------------|------|----|----|---------------|----------|--------------|
| 32       | 4.2        | 9    | 53 | 40 | 19            | 4835684  | EAHF-L2-25-P |
| 45       | 5.5        | 12.2 | 53 | 40 | 35            | 4835728  | EAHF-L2-45-P |
| 60       | 5.5        | 12.2 | 53 | 40 | 35            | 4835728  | EAHF-L2-45-P |
| 80       | 5.5        | 12.2 | 53 | 40 | 35            | 4835728  | EAHF-L2-45-P |

## Accessories

### Profile mounting EAHF-L2-...-P-D...

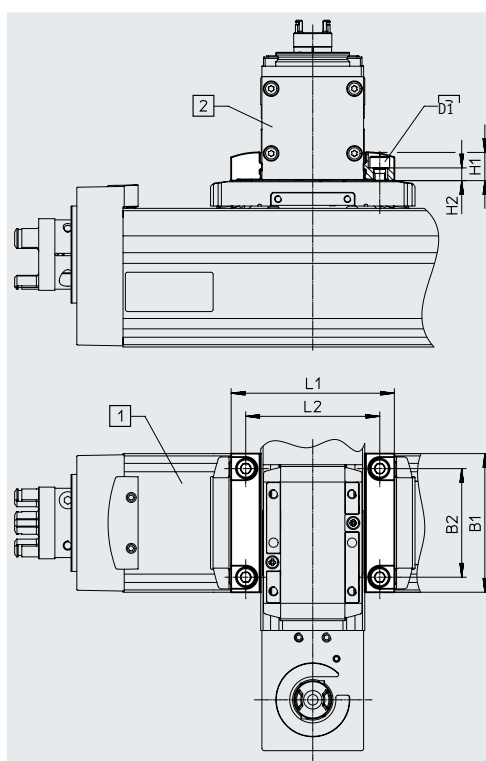
Material:

Anodised wrought aluminium alloy

RoHS-compliant

- For axis/axis mounting without adapter plate
- Mounting option: base axis with one-size-down assembly axis (→ page 4)

| Combination matrix                 |      | [2] Assembly axis ELGC-BS/-TB; ELFC; EGSC-BS |         |         |         |
|------------------------------------|------|----------------------------------------------|---------|---------|---------|
|                                    | Size | 25                                           | 32      | 45      | 60      |
| [1] Base axis<br>ELGC-BS/-TB; ELFC | 32   | 4759753                                      | –       | –       | –       |
|                                    | 45   | –                                            | 4759748 | –       | –       |
|                                    | 60   | –                                            | –       | 4759739 | –       |
|                                    | 80   | –                                            | –       | –       | 4759726 |



[1] Base axis

[2] Assembly axis

| Dimensions and ordering data |    |      |    |      |  |  |
|------------------------------|----|------|----|------|--|--|
| For combination (size)       | B1 | B2   | D1 | H1   |  |  |
| 32/25                        | 32 | 22.5 | M3 | 9    |  |  |
| 45/32                        | 45 | 34   | M4 | 9    |  |  |
| 60/45                        | 60 | 47   | M5 | 12.2 |  |  |
| 80/60                        | 78 | 63   | M6 | 12.2 |  |  |

| For combination (size) | H2<br>±0.1 | L1   | L2 | Weight<br>[g] | Part no. | Type            |
|------------------------|------------|------|----|---------------|----------|-----------------|
| 32/25                  | 5.1        | 44.4 | 35 | 16            | 4759753  | EAHF-L2-25-P-D1 |
| 45/32                  | 3.7        | 51.4 | 42 | 24            | 4759748  | EAHF-L2-25-P-D2 |
| 60/45                  | 5.5        | 70.6 | 58 | 56            | 4759739  | EAHF-L2-45-P-D3 |
| 80/60                  | 4.5        | 85.6 | 73 | 77            | 4759726  | EAHF-L2-45-P-D4 |

## Accessories

### Adapter kit EHAA-D-L2

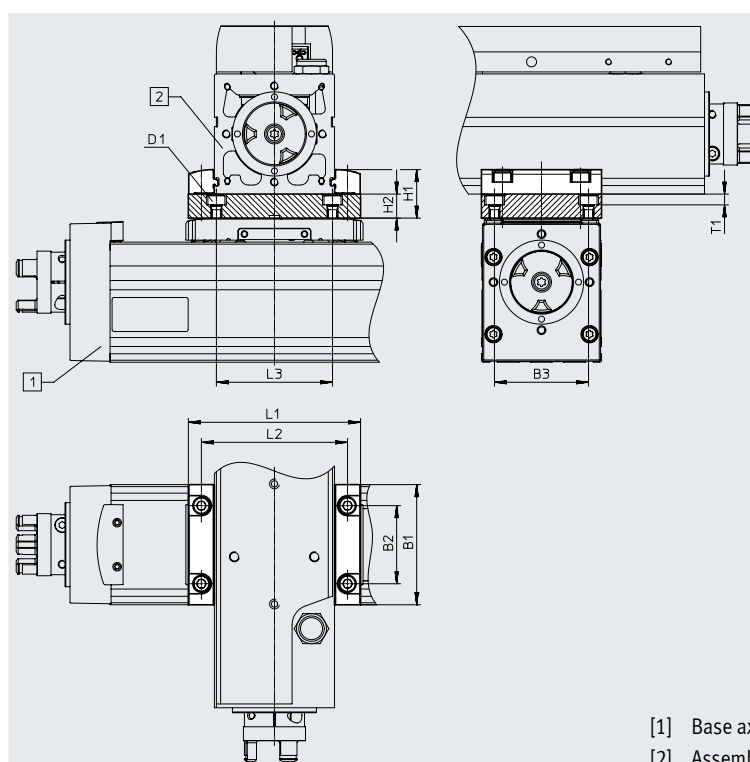
Material:

Anodised wrought aluminium alloy

RoHS-compliant

- For axis/axis mounting with adapter plate
- Mounting option: base axis with same size or one-size-down assembly axis (→ page 1)
- When motors are mounted using parallel kits, this may lead to interfering contours. In this case, the adapter plate is required for height compensation (download CAD data → [www.festo.com](http://www.festo.com))

| Combination matrix                 |      | [2] Assembly axis ELGC-BS/-TB; ELFC; EGSC-BS |         |         |         |    |
|------------------------------------|------|----------------------------------------------|---------|---------|---------|----|
|                                    | Size | 25                                           | 32      | 45      | 60      | 80 |
| [1] Base axis<br>ELGC-BS/-TB; ELFC | 32   | 8066713                                      |         | –       | –       | –  |
|                                    | 45   | –                                            | 8066714 |         | –       | –  |
|                                    | 60   | –                                            | –       | 8066715 |         | –  |
|                                    | 80   | –                                            | –       | –       | 8066716 |    |



[1] Base axis  
[2] Assembly axis

| Dimensions and ordering data |    |          |    |      |    |      |    |    |     |            |          |                    |
|------------------------------|----|----------|----|------|----|------|----|----|-----|------------|----------|--------------------|
| For combination (size)       | B1 | B3 ±0.05 | D1 | H1   | H2 | L1   | L2 | L3 | T1  | Weight [g] | Part no. | Type               |
| 32/25                        | 32 | 22.5     | M3 | 19   | 10 | 44.4 | 35 | 35 | 4.2 | 60         | 8066713  | EHAA-D-L2-32-L2-32 |
| 45/32                        | 45 | 34       | M4 | 19   | 10 | 51.4 | 42 | 42 | 5.4 | 136        | 8066714  | EHAA-D-L2-45-L2-45 |
| 60/45                        | 60 | 47       | M5 | 24.2 | 12 | 70.6 | 58 | 58 | 5.4 | 205        | 8066715  | EHAA-D-L2-60-L2-60 |
| 80/60                        | 78 | 63       | M6 | 24.2 | 12 | 85.6 | 73 | 73 | 6.4 | 315        | 8066716  | EHAA-D-L2-80-L2-80 |

| For combination (size) | B1 | B2   | B3 ±0.05 | D1 | H1   | H2 | L1  | L2 | L3 | T1  | Weight [g] | Part no. | Type               |
|------------------------|----|------|----------|----|------|----|-----|----|----|-----|------------|----------|--------------------|
| 32/32                  | 32 | 14.5 | 22.5     | M3 | 19   | 10 | 52  | 42 | 35 | 4.2 | 60         | 8066713  | EHAA-D-L2-32-L2-32 |
| 45/45                  | 45 | 32   | 34       | M4 | 22.2 | 10 | 71  | 58 | 42 | 5.4 | 136        | 8066714  | EHAA-D-L2-45-L2-45 |
| 60/60                  | 60 | 39   | 47       | M5 | 24.2 | 12 | 86  | 73 | 58 | 5.4 | 205        | 8066715  | EHAA-D-L2-60-L2-60 |
| 80/80                  | 78 | 63   | 63       | M6 | 24.2 | 12 | 106 | 93 | 73 | 6.4 | 315        | 8066716  | EHAA-D-L2-80-L2-80 |

## Accessories

### Angle kit EHAA-D-L2-...-AP

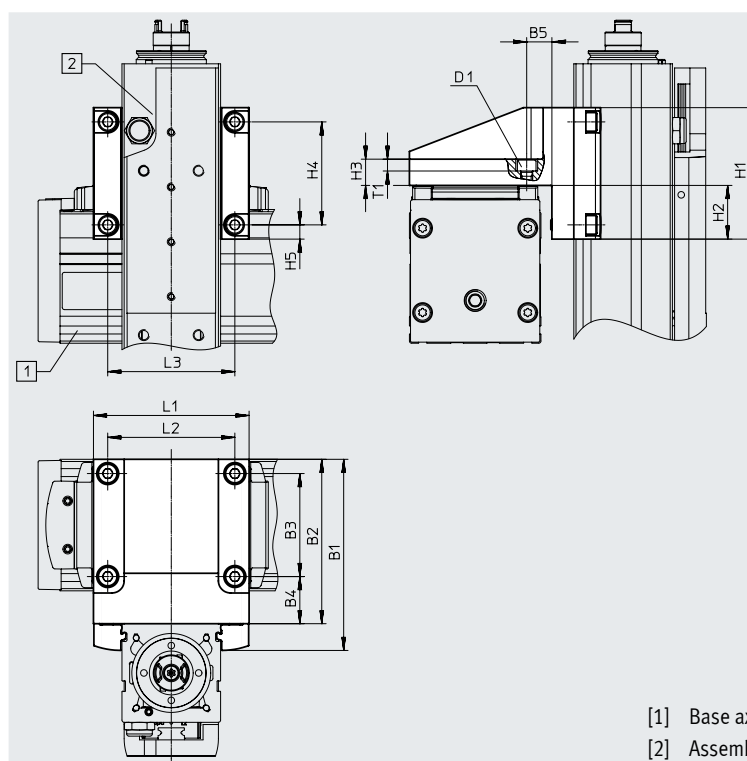
Material:

Anodised wrought aluminium alloy

RoHS-compliant

- For mounting one-size-down vertical axes (assembly axes) on base axes with mounting position "slide at top"  
(→ page 4)

| Combination matrix                 |      | [2] Assembly axis ELGC-BS/-TB; ELFC; EGSC-BS |         |         |         |
|------------------------------------|------|----------------------------------------------|---------|---------|---------|
|                                    | Size | 25                                           | 32      | 45      | 60      |
| [1] Base axis<br>ELGC-BS/-TB; ELFC | 32   | 8066717                                      | –       | –       | –       |
|                                    | 45   | –                                            | 8066718 | –       | –       |
|                                    | 60   | –                                            | –       | 8066719 | –       |
|                                    | 80   | –                                            | –       | –       | 8066720 |



[1] Base axis  
[2] Assembly axis

| Dimensions and ordering data |       |    |      |      |      |    |    |      |    |      |
|------------------------------|-------|----|------|------|------|----|----|------|----|------|
| For combination (size)       | B1    | B2 | B3   | B4   | B5   | D1 | H1 | H2   | H3 | H4   |
| 32/25                        | 53    | 44 | 22.5 | 16.8 | 8.8  | M3 | 32 | 11   | 10 | 22.5 |
| 45/32                        | 69    | 60 | 34   | 20.5 | 11.5 | M4 | 45 | 17.5 | 10 | 34   |
| 60/45                        | 87.2  | 75 | 47   | 21.5 | 11.5 | M5 | 60 | 24.5 | 12 | 47   |
| 80/60                        | 107.2 | 95 | 63   | 23.5 | 13.5 | M6 | 78 | 33.5 | 12 | 63   |

| For combination (size) | H5  | L1 | L2 | L3 | T1  | Weight [g] | Part no. | Type                  |
|------------------------|-----|----|----|----|-----|------------|----------|-----------------------|
| 32/25                  | 4.8 | 45 | 35 | 35 | 4.2 | 107        | 8066717  | EHAA-D-L2-32-L2-25-AP |
| 45/32                  | 5.5 | 52 | 42 | 42 | 5.4 | 222        | 8066718  | EHAA-D-L2-45-L2-32-AP |
| 60/45                  | 6.5 | 71 | 58 | 58 | 5.4 | 433        | 8066719  | EHAA-D-L2-60-L2-45-AP |
| 80/60                  | 7.5 | 86 | 73 | 73 | 6.4 | 768        | 8066720  | EHAA-D-L2-80-L2-60-AP |

## Accessories

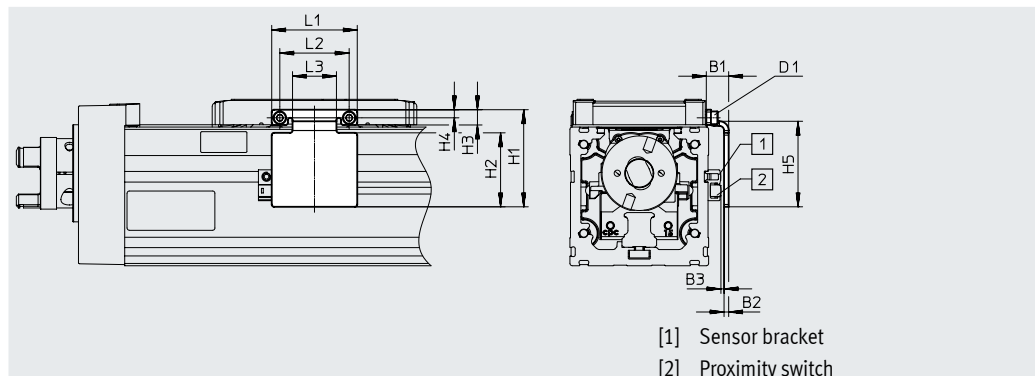
### Switch lug EAPM-L2-SLS

For sensing using inductive proximity switches SIES-8M

Material:

Galvanised steel

RoHS-compliant



#### Dimensions and ordering data

| For size | B1  | B2 | B3       | D1   | H1<br>±0.2 | H2 | H3  | H4  |
|----------|-----|----|----------|------|------------|----|-----|-----|
| 32       | 9.2 | 2  | 1.0±0.31 | M1.6 | 27         | 19 | 4.3 | 2.5 |
| 45       | 9.4 | 2  | 1.2±0.31 | M2   | 37         | 28 | 5.5 | 3.3 |
| 60       | 9.7 | 2  | 1.3±0.31 | M3   | 37         | 32 | 6.6 | 3.5 |
| 80       | 9.5 | 2  | 1.1±0.32 | M4   | 53.5       | 42 | 8.3 | 4.5 |

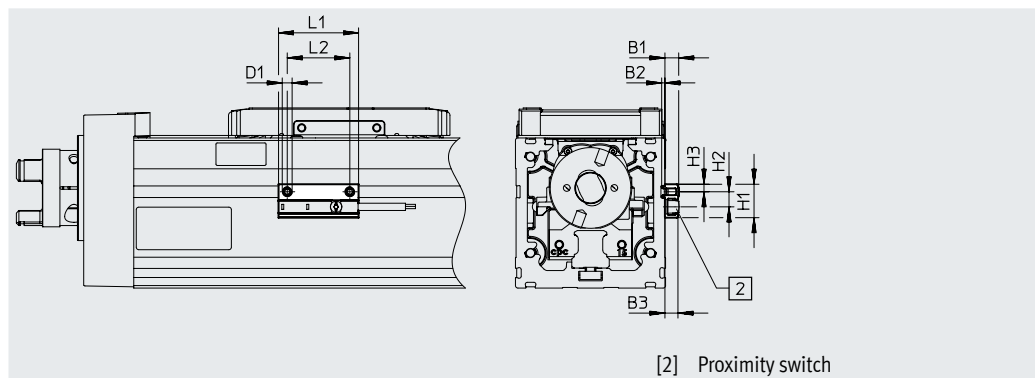
| For size | H5<br>±0.2 | L1<br>±0.2 | L2<br>±0.15 | L3   | Weight<br>[g] | Part no. | Type           |
|----------|------------|------------|-------------|------|---------------|----------|----------------|
| 32       | 24         | 22         | 18          | 10   | 10            | 8067259  | EAPM-L2-32-SLS |
| 45       | 33         | 30         | 24          | 14   | 18            | 8067260  | EAPM-L2-45-SLS |
| 60       | 37         | 42         | 30          | 19   | 27            | 8067261  | EAPM-L2-60-SLS |
| 80       | 47         | 44.6       | 36          | 23.4 | 42            | 8067262  | EAPM-L2-80-SLS |

### Sensor bracket EAPM-L2-SH

Material:

Anodised wrought aluminium alloy

RoHS-compliant



#### Dimensions and ordering data

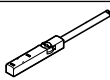
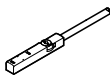
| For size       | B1  | B2  | D1 | H1   | H2 |
|----------------|-----|-----|----|------|----|
| 32, 45, 60, 80 | 5.5 | 1.3 | M4 | 13.4 | 6  |

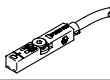
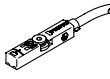
| For size       | H3 | L1 | L2 | Weight<br>[g] | Part no. | Type       |
|----------------|----|----|----|---------------|----------|------------|
| 32, 45, 60, 80 | 3  | 32 | 25 | 4             | 4759852  | EAPM-L2-SH |

## Accessories

| Ordering data                                                                     |            |                                       |          |              |                  |
|-----------------------------------------------------------------------------------|------------|---------------------------------------|----------|--------------|------------------|
|                                                                                   | For size   | Description                           | Part no. | Type         | PU <sup>1)</sup> |
| Centring pin ZBS/centring sleeve ZBH                                              |            |                                       |          |              |                  |
|  | 32         | For slide                             | 525273   | ZBS-2        | 10               |
|                                                                                   | 45         |                                       | 562959   | ZBS-4        |                  |
|                                                                                   | 60         |                                       | 189652   | ZBH-5        |                  |
|                                                                                   | 80         |                                       | 186717   | ZBH-7        |                  |
| Clamping element EADT                                                             |            |                                       |          |              |                  |
|  | 32, 45     | Tool for retensioning the cover strip | 8065818  | EADT-S-L5-32 | 1                |
|                                                                                   | 60, 80     |                                       | 8058451  | EADT-S-L5-70 |                  |
| Push-in fitting                                                                   |            |                                       |          |              |                  |
|  | 32         | For sealing air connection            | 133003   | QSM-M5-3-I-R | 10               |
|                                                                                   | 45, 60, 80 |                                       | 133004   | QSM-M5-4-I-R |                  |
|                                                                                   |            |                                       | 186266   | QSM-G1/8-4-I |                  |
|                                                                                   |            |                                       | 186267   | QSM-G1/8-6-I |                  |

1) Packaging unit

| Ordering data – Proximity switches for T-slot, inductive                            |                                                                    |                  |                       |                  |          | Data sheets → Internet: sies |  |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------|------------------|-----------------------|------------------|----------|------------------------------|--|
|                                                                                     | Type of mounting                                                   | Switching output | Electrical connection | Cable length [m] | Part no. | Type                         |  |
| N/O contact                                                                         |                                                                    |                  |                       |                  |          |                              |  |
|  | Insertable in the slot from above, flush with the cylinder profile | PNP              | Cable, 3-wire         | 7.5              | 551386   | SIES-8M-PS-24V-K-7.5-OE      |  |
|                                                                                     |                                                                    |                  | Plug M8x1, 3-pin      | 0.3              | 551387   | SIES-8M-PS-24V-K-0.3-M8D     |  |
|                                                                                     |                                                                    | NPN              | Cable, 3-wire         | 7.5              | 551396   | SIES-8M-NS-24V-K-7.5-OE      |  |
|                                                                                     |                                                                    |                  | Plug M8x1, 3-pin      | 0.3              | 551397   | SIES-8M-NS-24V-K-0.3-M8D     |  |
| N/C contact                                                                         |                                                                    |                  |                       |                  |          |                              |  |
|  | Insertable in the slot from above, flush with the cylinder profile | PNP              | Cable, 3-wire         | 7.5              | 551391   | SIES-8M-PO-24V-K-7.5-OE      |  |
|                                                                                     |                                                                    |                  | Plug M8x1, 3-pin      | 0.3              | 551392   | SIES-8M-PO-24V-K-0.3-M8D     |  |
|                                                                                     |                                                                    | NPN              | Cable, 3-wire         | 7.5              | 551401   | SIES-8M-NO-24V-K-7.5-OE      |  |
|                                                                                     |                                                                    |                  | Plug M8x1, 3-pin      | 0.3              | 551402   | SIES-8M-NO-24V-K-0.3-M8D     |  |

| Ordering data – Proximity switches for T-slot, magneto-resistive                    |                                                                                  |                  |                       |                  |          | Data sheets → Internet: smt |  |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|------------------|-----------------------|------------------|----------|-----------------------------|--|
|                                                                                     | Type of mounting                                                                 | Switching output | Electrical connection | Cable length [m] | Part no. | Type                        |  |
| N/O contact                                                                         |                                                                                  |                  |                       |                  |          |                             |  |
|  | Insertable in the slot from above, flush with the cylinder profile, short design | PNP              | Cable, 3-wire         | 2.5              | 574335   | SMT-8M-A-PS-24V-E-2.5-OE    |  |
|                                                                                     |                                                                                  |                  | Plug M8x1, 3-pin      | 0.3              | 574334   | SMT-8M-A-PS-24V-E-0.3-M8D   |  |
| N/C contact                                                                         |                                                                                  |                  |                       |                  |          |                             |  |
|  | Insertable in the slot from above, flush with the cylinder profile, short design | PNP              | Cable, 3-wire         | 7.5              | 574340   | SMT-8M-A-PO-24V-E-7.5-OE    |  |
|                                                                                     |                                                                                  |                  |                       |                  |          |                             |  |

| Ordering data – Connecting cables                                                   |                              |                              |                  |          |                     | Data sheets → Internet: nebu |  |
|-------------------------------------------------------------------------------------|------------------------------|------------------------------|------------------|----------|---------------------|------------------------------|--|
|                                                                                     | Electrical connection, left  | Electrical connection, right | Cable length [m] | Part no. | Type                |                              |  |
|  | Straight socket, M8x1, 3-pin | Cable, open end, 3-wire      | 2.5              | 541333   | NEBU-M8G3-K-2.5-LE3 |                              |  |
|                                                                                     |                              |                              | 5                | 541334   | NEBU-M8G3-K-5-LE3   |                              |  |
|  | Angled socket, M8x1, 3-pin   | Cable, open end, 3-wire      | 2.5              | 541338   | NEBU-M8W3-K-2.5-LE3 |                              |  |
|                                                                                     |                              |                              | 5                | 541341   | NEBU-M8W3-K-5-LE3   |                              |  |