





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.

Integrated

The integrated electronics in the drive are at the core of the Simplified Motion Series.

Simple

For commissioning, simply set all relevant parameters directly on the drive:

- · Speed and force
- Reference end position and cushioning
- Manual operation

IO-Link

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.

Standardised

Electrical connection via

M12 plug design

- Power (4-pin): power supply for the motor
- Logic (8-pin): control signal, sensor signal and power for the integrated electronics

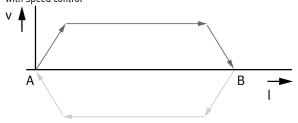
Connected

Use of extended functions via IO-Link:

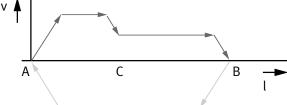
- Motion parameters can be set remotely
- Copy and backup function for transferring parameters
- Read function for extended process parameters

The functions of the Simplified Motion Series

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



Extended motion profile for simplified press-fitting and clamping functions: with speed and force control $\mathbf{v} \cdot \mathbf{A} \cdot \mathbf{I}$



- These drives are designed for simple movements between two end positions.
- Proximity switches are required in order to implement any intermediate positions.

The products in the Simplified Motion Series

Spindle axis unit ELGS-BS-KF



Toothed belt axis unit ELGS-TB-KF



Mini slide unit EGSS-BS-KF



Toothed belt axis unit



Electric cylinder unit

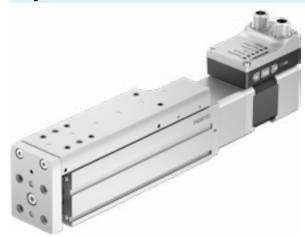


Rotary drive unit



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 two 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
- Very high-quality ball screw drive with minimal internal friction
- Rigid, high load-bearing and precise linear guide for absorbing lateral forces and for increased protection against rotation

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

This product is also available as a modular mechanical system as spindle axis EGSC-BS:



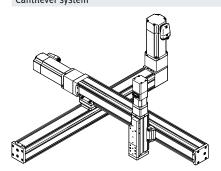
When to compact dimensions and optimised installation space are important, e.g. in assembly systems, test and inspection systems, small parts handling, the electronics industry and desktop applications. Either as an individual axis or as a handling system.

- Compact: optimum ratio of installation space to working space
- Unique: "one-size-down" mounting system
- · Modular: individual combinations with motor, motor mounting kit and servo drive
- Flexible: wide range of mounting options for optimum machine integration

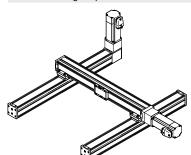
Typical handling systems

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.

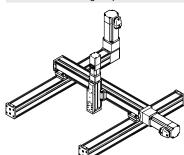




Planar surface gantry



Three-dimensional gantry

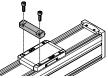


Key features

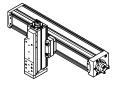
Matrix showing combinations between axis ELGC/ELGS-TB, ELGC/ELGS-BS, mini slide EGSC/EGSS-BS, electric cylinder EPCC/EPCS-BS and guide axis ELFC Mounting options with profile mounting and via angle kit

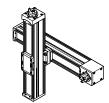
		Assembly axis ELGC-BS/-TB; ELFC; EGSC-BS; EPCC-BS; ELGS-BS/-TB; EGSS-BS, EPCS-BS				
	Size	25	32	45	60	
Base axis ELGC-BS/-TB; ELFC;	32	•	-	-	-	
	45	-	•	-	-	
ELGS-BS/-TB	60	-	-		-	
	80	-	-	-	•	

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



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



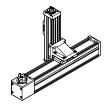


With angle kit EHAA-D-L2-...-AP



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





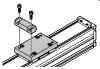
Matrix showing combinations between axis ELGC/ELGS-TB, ELGC/ELGS-BS, mini slide EGSC/EGSS-BS, electric cylinder EPCC/EPCS-BS and guide axis ELFC Assembly options with adapter kit or direct mounting

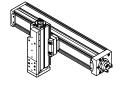
	Assembly axis ELGC-BS/-TB; ELFC; EGSC-BS; EPCC-BS; ELGS-BS/-TB; EGSS-BS, EPCS-BS					
	Size	25	32	45	60	80
Base axis	32			-	-	-
ELGC-BS/-TB; ELFC;	45	-	ı		-	-
ELGS-BS/-TB	60	-	-			_
	80	-	-	-	ı	

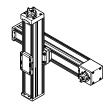
			Assembly axis EGSC-BS; EGSS-BS			
	Size	25	32	45	60	
Base axis	25		-	-	-	
EGSC-BS;	32	-	•	-	-	
EGSS-BS	45	-	-	•	-	
	60	-	-	-		

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

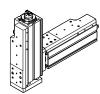






With direct mounting

Mounting option: base axis with the same size assembly axis

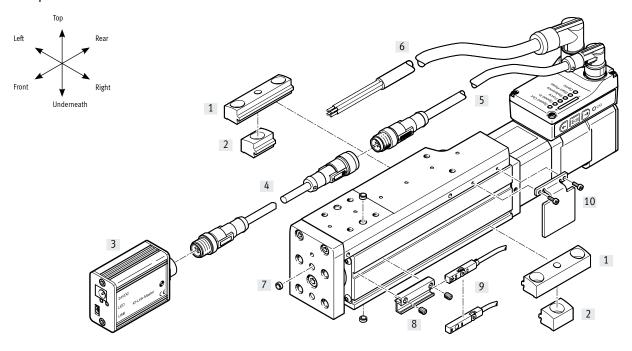


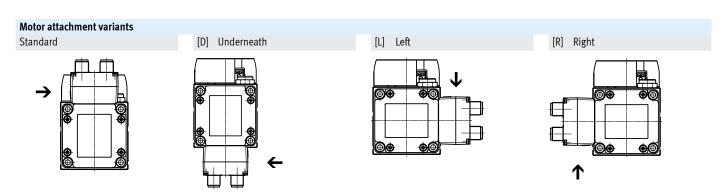
Type codes

001	Series	
EGSS	Electric slide drive	
002	Drive system	ı
BS	Ball screw drive	
05	Dati Sciew drive	
003	Guide	
KF	Recirculating ball bearing guide	
004	Size	
32	32	
45	45	
60	60	
005	Stroke	1
25	25	
50	50	
75	75	
100	100	
125	125	
150	150	
200	200	
006	Spindle pitch	
8P	8 mm	
10P	10 mm	
12P	12 mm	
007	Motor type	
ST	Stepper motor ST	
009	Controller	
М	Integrated	
010	Control panel	
H1	Integrated	

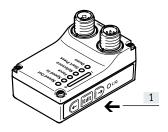
011	Bus protocol/activation	
PLK	PNP and IO-Link®	
NLK	NPN and IO-Link®	
1		_
013	End-position sensing	
AA	With integrated end-position sensing	
014	Cable outlet direction	
014	Cable outlet unection	
	Standard	
D	Underneath	
L	Left	
R	Right	
		_
015	Electrical accessories	
	None	
L1	Adapter for operation as IO-Link® device	
		_
016	Operating instructions	
	With operating instructions	
DN	No operating instructions	

Peripherals overview









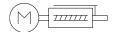
[1] Pushbutton actuators for parameterisation and control



Peripherals overview

Acces	sories		
	Type/order code	Description	→ Page/Internet
[1]	Profile mounting EAHF-L2P	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	22
2]	Profile mounting EAHF-L2P-S	For mounting the axis on the side of the profile	23
3]	IO-Link master USB CDSU-1	For straightforward use of the mini slide unit via IO-Link	26
4]	Adapter NEFC-M12G8	Connection between the motor and the and IO-Link master	26
5]	Connecting cable NEBC-M12	For connection to a controller	27
6]	Supply cable NEBL-T12	For connecting load and logic supply	26
7]	Centring pin/sleeve ZBS, ZBH	For centring loads and attachments	25
8]	Sensor bracket ¹⁾ EAPM-L2	For mounting the proximity switches on the axis. The proximity switches can only be mounted using the sensor bracket	24
9]	Proximity switch ¹⁾ SIES-8M	Inductive proximity switch, for T-slot	25
	Proximity switch ¹⁾ SMT-8M	Magnetic proximity switch, for T-slot	25
10]	Switch lug ¹⁾ EAPMSLS	For sensing the slide position in conjunction with inductive proximity switches SIES-8M	24

¹⁾ Proximity switches are optional and only required in order to sense any intermediate positions.



- **Ø** - Size

Size 32 ... 60

- | -

Stroke length 25 ... 200 mm



General technical data						
Size		32	45	60		
Design		Electric mini slide with ball screw o	drive and integrated drive			
Motor type		Stepper motor				
Guide		Recirculating ball bearing guide				
Mounting position		Any				
Working stroke	[mm]	25, 50, 75, 100	25, 50, 75, 100, 125, 150	50, 75, 100, 125, 150, 200		
Stroke reserve	[mm]	0		·		
Additional functions		Integrated end-position sensing				
		User interface				
Display	,	LED				
Homing		Positive fixed stop block				
		Negative fixed stop block				
Type of mounting		With female thread				
		With accessories				
		With centring pin, centring sleeve				
Max. line length						
Inputs/outputs	[m]	15				
IO-Link operation	[m]	20				

Mechanical data					
Size		32	45	60	
Max. payload					
Horizontal	[kg]	2	6	10	
Vertical	[kg]	2	6	10	
Max. feed force F _x	[N]	60	120	250	
Max. radial force ¹⁾	[N]	140	340	420	
Max. speed	[m/s]	0.19	0.25	0.24	
Speed press	[m/s]	0.01		`	
Max. acceleration	[m/s ²]	5			
Repetition accuracy	[mm]	±0.015			
Reversing backlash	[µm]	150			
Position sensing		For proximity switch			
		Via IO-Link			

At the drive shaft



Data sheet

Spindle						
Size		32	45	60		
Diameter	[mm]	8	10	12		
Pitch	[mm/rev.]	8	10	12		
Electrical data						
Size		32	45	60		
Motor		3-	, ,	00		
Nominal voltage DC	[V]	24 (±15%)				
Nominal current	[A]	3	3	5.3		
Max. current consumption (load)	[A]	3	3	5.3		
Max. current consumption (logic)	[mA]	300	3	3.3		
Encoder	[iiii ij	1 300				
Rotor position encoder		Absolute encoder, single turn				
Rotor position encoder measuring principle		Magnetic				
Rotor position encoder resolution	[bit]	16				
			:			
Interfaces						
Size		32	45	60		
Parameterisation interface						
IO-Link		Yes				
User interface		Yes				
Digital inputs		I				
Number		2				
Switching logic		PNP				
		NPN				
Properties		Not galvanically isolated				
		Configurable				
Specification		Based on IEC 61131-2, type 1				
Working area	[V]	24				
Digital outputs						
Number		2				
Switching logic		PNP				
		NPN				
Rotor position encoder		Absolute encoder, single turn				
Properties		Not galvanically isolated				
		Configurable				
Max. current	[mA]	100				

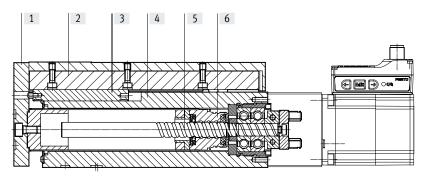
Technical data – IO-Link					
Size		32	45	60	
SIO-mode support		Yes			
Communication mode		COM3 (230.4 kBaud)			
Connection technology		Plug			
Port class		A			
Number of ports		1			
Process data width OUT	[bytes]	2			
Process data content OUT	[bit]	1 (Move in)			
	[bit]	1 (Move out)			
	[bit]	1 (Quit Error)			
Process data width IN	[bytes]	2			
Process data content IN	[bit]	1 (State Device)			
	[bit]	1 (State Move)			
	[bit]	1 (State in)			
	[bit]	1 (State out)			
Service data contents 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		32	45		60	
Insulation class		В				
Ambient temperature	[°C]	0 +50				
Storage temperature	[°C]	-20 +60				
Note on ambient temperature		Above an ambient te	mperature of 30°C, the power	must be reduced by 2% per K		
Relative humidity	[%]	0 90				
Protection class III						
Degree of protection		IP40				
Duty cycle	[%]	100				
CE marking		To EU EMC Directive				
		To EU RoHS Directive				
KC mark		KC-EMV				
Certification		RCM compliance mar	k			
Vibration resistance		Transport application check with severity level 1 to FN 942017-4 and EN 61800-2 and EN 61800-5-1				
Shock resistance	Shock test with sever	Shock test with severity level 1 to FN 942017-5 and EN 61800-2				
Maintenance interval		Life-time lubrication				

Weight				
Size		32	45	60
Basic weight with 0 mm stroke	[g]	924	1238	2735
Additional weight per 10 mm stroke	[g]	30	63	95
Moving mass at 0 mm stroke	[g]	149	212	675
Additional moving mass per 10 mm stroke	[g]	12	30	40

Materials

Sectional view



Axis		
[1]	Yoke plate	Anodised wrought aluminium alloy
[2]	Slide	Anodised wrought aluminium alloy
[3]	Guide rail	Rolled steel
[4]	Housing	Anodised wrought aluminium alloy
[5]	Spindle	Rolled steel
[6]	Spindle nut	Rolled steel
	Note on materials	RoHS-compliant
		Contains paint-wetting impairment substances

Pin allocation

Power supply

Plug

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



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

Logic interface

Plug

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



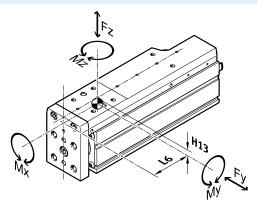
When used wit	h digital I/O
Pin	Function
1	Logic power supply (24 V DC)
2	Digital output 1 (State "In")
3	Digital output 2 (State "Out")
4	Reference potential, logic power supply (GND)
5	Digital input 1 (Move "In")
6	Digital input 2 (Move "Out")
7	Reserved, do not connect
8	Reference potential, logic power supply (GND)

When use	d with I/O-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)

Dynamic characteristic load values

The indicated forces and torques refer to the centre of the guide.

These values must not be exceeded during dynamic operation.



Distance from the centre of	of the guide			
Size		32	45	60
Dimension H13	[mm]	7.9	10.2	15.9
Dimension L6 ¹⁾	[mm]	31.8	37.3	53.4

1) The dimension relates to the retracted position of the slide. In the advanced position, the dimension must be extended accordingly.

Max. permissible forces and torques for the bearing calculation, for a service life of 5 x 10 ⁶ cycles and max. stroke							
Size		32	45	60			
Fy _{max.}	[N]	991	1314	4937			
Fz _{max} .	[N]	991	1314	4937			
Mx _{max} .	[Nm]	3.4	8.1	20			
My _{max} .	[Nm]	3.2	7	30			
Mz _{max.}	[Nm]	3.2	7	30			

Basic load ratings				
Size		32	45	60
Dynamic				
Ball screw drive	[N]	2000	3200	4600
Linear guide	[N]	2135	3240	13400
Fixed bearing	[N]	3795	7413	13321
Static				·
Ball screw drive	[N]	3700	5900	8500
Linear guide	[N]	3880	5630	26900
Fixed bearing	[N]	1792	3966	7000



Note

For a guide system to have a service life of 5×10^6 cycles, the load comparison factor must have a value of 6×10^6 cycles, the load comparison factor must have a value of 6×10^6 cycles.

This formula can be used to calculate a guide value.

The engineering software "PositioningDrives" is available

for more precise calculations → 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:

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

 $F_1/M_1 = dynamic value$

 $F_2/M_2 = maximum value$

Data sheet

Calculating the service life

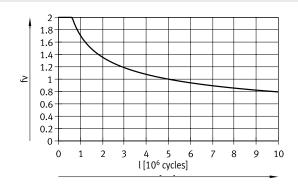
The service life of the guide depends on the load. To be able to make a statement as to the service life of the guide, the graph below plots the load comparison factor fv against the service life.

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

Load comparison factor fv as a function of service life l

Example:

A user wants to move an x kg load. Using the formula (\rightarrow page 12) gives a value of 1.5 for the load comparison factor fv. According to the graph, the guide has a service life of approx. 1.5x 10⁶ cycles. Reducing the acceleration reduces the My and Mz values. A load comparison factor fv of 1 now gives a service life of 5 x 10⁶ cycles.



Comparison of the characteristic load values for 5 x 106 cycles with dynamic forces and torques of recirculating ball bearing guides

The characteristic load values of 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 mini slides EGSC 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 force Application: mass m o	•	neoretical service life o	f 100 km (from a guide perspectiv	e only)	
Size		25	32	45	60
Fy _{max.}	[N]	1310	2135	3240	13400
Fz _{max} .	[N]	1310	2135	3240	13400
Mx _{max.}	[Nm]	5	10	20	107
My _{max.}	[Nm]	4	7	17	117
Mz _{max.}	[Nm]	4	7	17	117

Service life of the motor

The service life of the motor at nominal power is 20000 h.

Sizing example

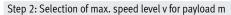
Application data:

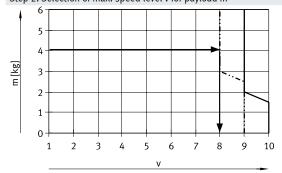
- · Payload: 4 kg
- Mounting position: vertical
- Stroke: 100 mm
- · Max. permitted positioning time: 1 s (one direction)

Step 1: Selection of the smallest possible size from the table → page 8

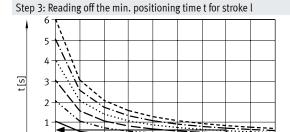
Mechanical data				
Size		32	45	60
Max. payload				
Horizontal	[kg]	2	6	10
Vertical	[kg]	2	6	10

→ Smallest possible size: EGSS-BS-KF-45





Horizontal
Vertical



l = 25 mm
l = 50 mm
l = 75 mm
l = 100 mm
l = 125 mm
l = 125 mm

0

 \rightarrow Min. positioning time for 100 mm at level 8: 0.6 s

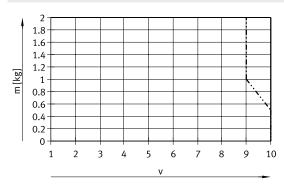
ightharpoonup Max. speed level for payload: level 8

Result

The application can be implemented using EGSS-BS-KF-45-100. A minimum positioning time (one direction) of 0.6 s is achieved. Longer positioning times can be selected at any time using a lower speed level.

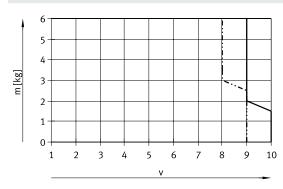
Mass m as a function of speed level v

Size 32



----- Horizontal

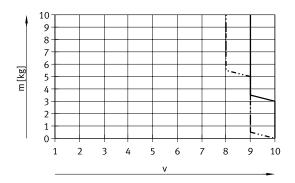
Size 45



Data sheet

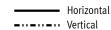
Mass m as a function of speed level v

Size 60



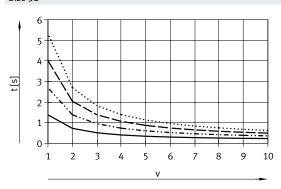
Note

The lines represent the maximum values. The lower speed levels can be set at any time.

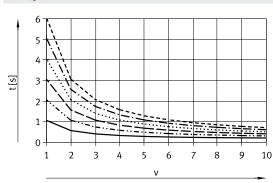


Positioning time t as a function of speed level v and stroke l

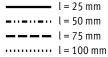
Size 32



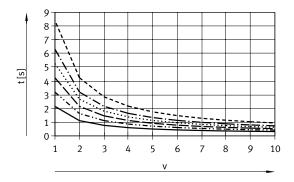
Size 45



l = 25 mm
l = 50 mm
l = 75 mm
l = 100 mm
l = 125 mm
l = 125 mm

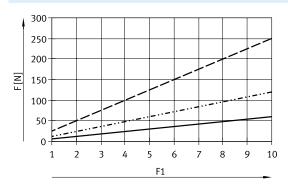


Size 60

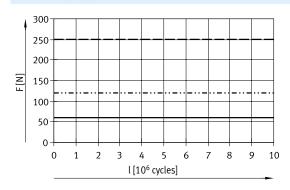


l = 50 mm
l = 75 mm
l = 100 mm
l = 125 mm
l = 125 mm
l = 200 mm

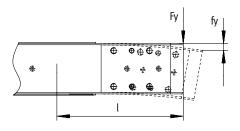
Feed force F as a function of force level F1

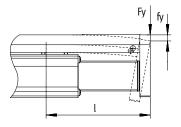


Feed force F as a function of service life l



Deflection f of the guide rail as a function of stroke l



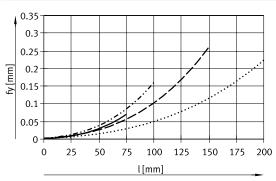


Fy/Fz at which the characteristic curves were determined

EGSS-BS-32: 10 N

EGSS-BS-45: 10 N

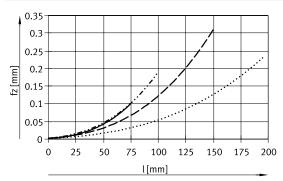
Deflection fy



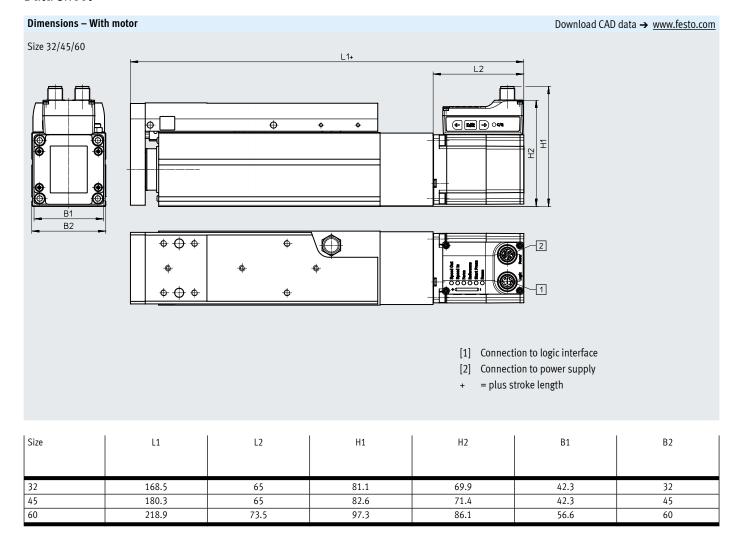
EGSS-BS-32
EGSS-BS-45
EGSS-BS-60

EGSS-BS-60: 10 N

Deflection fz

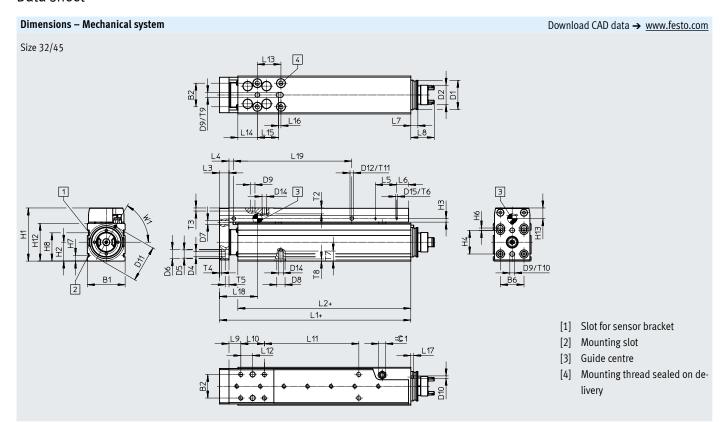


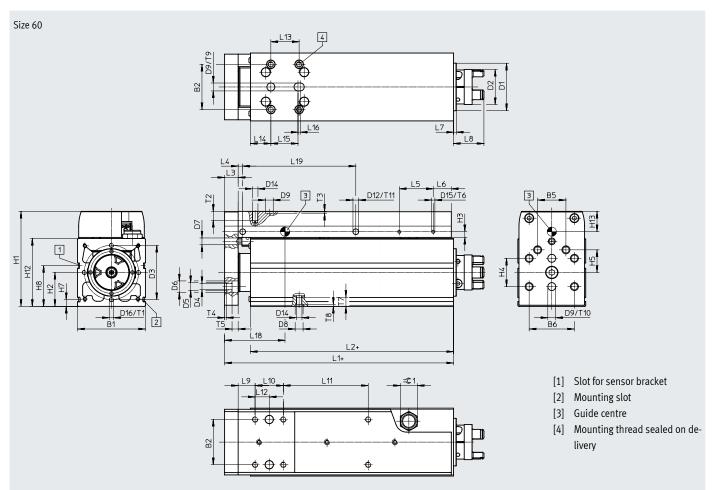
Data sheet



NEW

Data sheet





NEW

Data sheet

Data she	eet														
Size	B1 ±0.15	B2	B5	B6	D1 Ø	D2 Ø	D3 Ø	D4 Ø H13	D5 Ø H7	D6 Ø H13	D7 Ø	D8 Ø H7	D9 Ø H8	D10 Ø	D11 Ø
32	32	20	-	20	25	16.5	-	4.5	7	8	3	7	4	2	31
45	45	25	-	25	32	16.5	-	5.5	7	10	3	7	5	3	41
60	60	40	25	40	42	31	48	5.5	7	10	6	7	7	-	-
Size	D12 Ø	D13	D14	D15	D16	H1	H2	H3	H4	H5	H6	H7	H8	H12	H13
														±0.15	
32	3	-	M4	M1.6	-	45	16	3	20	_	2	4.9	24	32	8.4
45	3	-	M5	M2	-	60.5	22.5	3	25	-	-	6.1	28.5	45	10.7
60	5	M4	M5	M3	M4	84	30	5	25	20	-	6.1	36	60	16.4
Size	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	L12	L13	L14	L15	L16
			+0.2		±0.1										
32	62	46.5	8	4	18	10	6	19.9	10	20	10	20	16.5	18	2
45	73.8	54.5	10	4	24	12	6	19.9	15	25	12.5	25	17.5	24	2
60	102.4	79.5	12	4	30	16	2.5	26.9	15	25	12.5	25	30	24	2
Size	L17	L18	T1	T2	T3	T4	T5	T6	T7	T8	Т9	T10	T11	W1	= © 1
					+0.1	+0.1				+0.1	+0.1	+0.1	-0.2		
32	2.5	31.8	-	5	2.6	1.6	3.2	1.5	8.5	1.8	2.6	2.6	1.5	60°	6
45	2	37.3	-	6	1.3	1.6	5.4	4	7	1.8	1.3	1.3	5	60°	12
60	-	53.4	10	8	1.6	1.6	5.4	6	8	1.8	1.6	1.6	5	-	15
Size	Stroke [mm]					L19						L11			
32	25					25				0					
	50					50				30					
	75					75				55					
	100					100				80					
45	25					25						0			
	50					50						25			
	75					75						50			
	100					100						75			
	125			125						100					
	150					150						125			
60	50					50						25			
	75					75						50			
	100					100						75			
1	125					125						100			

200

NEW

Ordering data

Ordering data					
	Size	Spindle pitch	Stroke	Part no.	Туре
.	32	8	25	8083801	EGSS-BS-KF-32-25-8P-ST-M-H1-PLK-AA
			50	8083802	EGSS-BS-KF-32-50-8P-ST-M-H1-PLK-AA
			75	8083803	EGSS-BS-KF-32-75-8P-ST-M-H1-PLK-AA
			100	8083804	EGSS-BS-KF-32-100-8P-ST-M-H1-PLK-AA
	45	10	25	8083814	EGSS-BS-KF-45-25-10P-ST-M-H1-PLK-AA
			50	8083815	EGSS-BS-KF-45-50-10P-ST-M-H1-PLK-AA
			75	8083816	EGSS-BS-KF-45-75-10P-ST-M-H1-PLK-AA
			100	8083817	EGSS-BS-KF-45-100-10P-ST-M-H1-PLK-AA
			125	8083818	EGSS-BS-KF-45-125-10P-ST-M-H1-PLK-AA
			150	8083819	EGSS-BS-KF-45-150-10P-ST-M-H1-PLK-AA
	60	12	50	8083716	EGSS-BS-KF-60-50-12P-ST-M-H1-PLK-AA
			75	8083717	EGSS-BS-KF-60-75-12P-ST-M-H1-PLK-AA
			100	8083718	EGSS-BS-KF-60-100-12P-ST-M-H1-PLK-AA
			125	8083719	EGSS-BS-KF-60-125-12P-ST-M-H1-PLK-AA
			150	8083720	EGSS-BS-KF-60-150-12P-ST-M-H1-PLK-AA
			200	8083721	EGSS-BS-KF-60-200-12P-ST-M-H1-PLK-AA

Ordering data – Modular product system

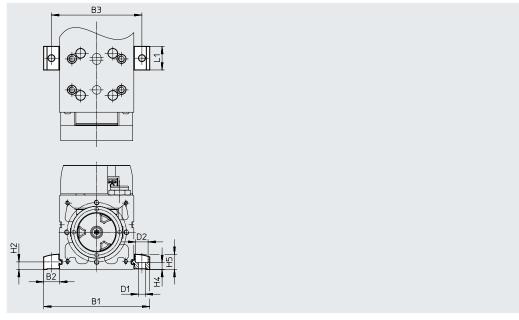
Ordering table							
Size		32	45	60	Conditions	Code	Enter
							code
Module no.		8083800	8083813	8083713			
Series		EGSS				EGSS	EGSS
Drive system		Ball screw drive				-BS	-BS
Guide		Recirculating ball bearin	g guide			-KF	-KF
Size		32	45	60			
Stroke	[mm]	25, 50, 75, 100	25, 50, 75, 100, 125, 150	50, 75, 100, 125, 150, 200			
Spindle pitch	[mm]	8P	10P	12P			
Motor type		Stepper motor ST			-ST	-ST	
Controller		Integrated			-M	-M	
Control panel		Integrated			-H1	-H1	
Bus protocol/control		NPN and IO-Link			-NLK		
		PNP and IO-Link			-PLK		
End-position sensing		With integrated end-pos	ition sensing		-AA	-AA	
Cable outlet direction		Standard					
		Left			-L		
		Underneath			-D		
		Right			-R		
Electrical accessories		None	·	<u> </u>			
		Adapter for operation as	IO-Link device		+L1		
Operating instructions		With operating instruction	ons				
		Without operating instru	ctions		DN		

Accessories

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

Material: Anodised wrought aluminium alloy RoHS-compliant • For mounting the slide on the side of the profile





Dimensions and ord	Dimensions and ordering data										
For size	B1	B2	В3	D1	D2	H2					
				Ø	Ø						
				H13	H13						
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					

For size	H4 ±0.1	Н5	L1	Weight [g]	Part no.	Туре
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

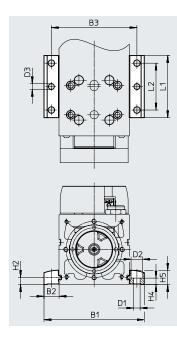
Accessories

Profile mounting EAHF-L2-...-P

Material: Anodised wrought aluminium alloy RoHS-compliant • For mounting the slide 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 ord	Dimensions and ordering data										
For size	B1	B2	В3	D1	D2	D3	H2				
				Ø H13	Ø H13	Ø					
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				

For size	H4 ±0.1	Н5	L1	L2	Weight [g]	Part no.	Туре
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

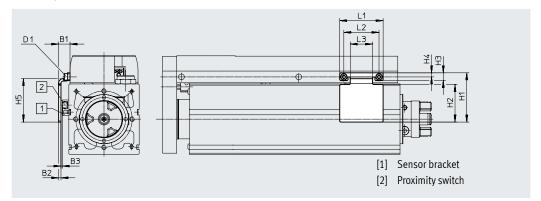
Accessories

Switch lug EAPM-...-SLS

For sensing using inductive proximity switches SIES-8M

Material: Galvanised steel RoHS-compliant





Dimensions and o	Dimensions and ordering data										
For size	B1	B2	В3	D1	H1	H2	Н3	H4			
32	9.2	2	1.0±0.26	M1.6	27	19	4.3	2.5			
45	9.4	2	0.7±0.26	M2	37	28	5.5	3.3			
60	9.7	2	0.7±0.31	M3	42	32	6.6	3.5			

For size	H5	L1	L2	L3	Weight [g]	Part no.	Туре
32	24	22	18	10	10	8067259	EAPM-L2-32-SLS
45	33	30	24	14	18	8067260	EAPM-L2-45-SLS
60	37	37	30	19	27	8067261	EAPM-L2-60-SLS

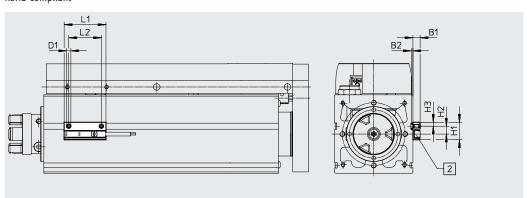
Sensor bracket EAPM-L2

Material:

Anodised wrought aluminium alloy





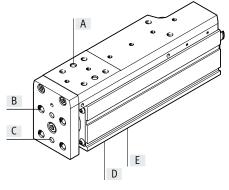


Dimensions and ordering data										
For size	B1	B2	D1	H1	H2					
32, 45, 60	5.5	1.3	M4	13.4	6					

For size	Н3	L1	L2	Weight [g]	Part no.	Туре
32, 45, 60	3	32	25	4	4759852	EAPM-L2-SH

Accessories

Ordering data – Centring sleeves



	For size	Position	Part no.	Туре	PE ¹⁾
) [32	A	562959	ZBS-4	10
		В	186717	ZBH-7	
		С	562959	ZBS-4	
		D	186717	ZBH-7	
		E	562959	ZBS-4	
	45	A	189652	ZBH-5	
		В	186717	ZBH-7	
		С	189652	ZBH-5	
		D	186717	ZBH-7	
		Е	189652	ZBH-5	
	60	A	186717	ZBH-7	
		В	186717	ZBH-7	
		С	186717	ZBH-7	
		D	186717	ZBH-7	
		E	186717	ZBH-7	

1) Packaging unit

Ordering data	Ordering data – Push-in fitting for sealing air connection								
	For size	Part no.	Туре						
	32	133003	QSM-M5-3-I-R						
		133004	QSM-M5-4-I-R						
	45	186266	QSM-G1/8-4-I						
		186267	QSM-G1/8-6-I						
	60	186108	QS-G1/4-6-I						
		186110	QS-G1/4-8-I						

Ordering data –	Proximity switches for T-slot, inductive					Data sheets → Internet: sies
	Type of mounting	Switching output	Electrical connection	Cable length [m]	Part no.	Туре
N/O contact						
1	Insertable in the slot from above, flush	PNP	Cable, 3-wire	7.5	551386	SIES-8M-PS-24V-K-7,5-OE
62	with the cylinder profile		Plug M8x1, 3-pin	0.3	551387	SIES-8M-PS-24V-K-0,3-M8D
6		NPN	Cable, 3-wire	7.5	551396	SIES-8M-NS-24V-K-7,5-0E
			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	PNP	Cable, 3-wire	7.5	551391	SIES-8M-PO-24V-K-7,5-0E
62 W	with the cylinder profile		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

Accessories

Ordering data –	Ordering data − Proximity switch for T-slot, magneto-resistive Data sheets → Internet: smt								
	Type of mounting	Switching	Electrical connection	Cable length	Part no.	Туре			
		output		[m]					
N/O contact									
	Inserted in the slot from above,	PNP	Cable, 3-wire	2.5	574335	SMT-8M-A-PS-24V-E-2,5-0E			
N. S. C.	flush with the cylinder profile,		Plug M8x1, 3-pin	0.3	574334	SMT-8M-A-PS-24V-E-0,3-M8D			
(A)	short design								
N/C contact									
	Inserted in the slot from above,	PNP	Cable, 3-wire	7.5	574340	SMT-8M-A-PO-24V-E-7,5-OE			
	flush with the cylinder profile,								
	short design								

Ordering data — Connecting cables Data sheets → Internet: nebu					
	Electrical connection, left	Electrical connection, right	Cable length [m]	Part no.	Туре
	Straight socket, M8x1, 3-pin	Cable, open end, 3-wire	2.5	541333	NEBU-M8G3-K-2.5-LE3
1			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



For sizes 45 and 60, inductive proximity switches SIES-8M must be used for strokes greater than 100 mm.

Proximity switches are optional and only required in order to sense any $in termediate\ positions.$

Ordering data – IO-Link master USB Data sheets → Internet: cdsu						
	Description			Part no.	Type	
			[m]			
For using the unit with IO-Link			0.3	8091509	CDSU-1	
	An external power supply plug is additionally required (not in scope of delivery)					
9:.						
Ordering data – Adapter Data sheets → Internet: nefc						
	Electrical connection, left	Electrical connection, right	Cable length	Part no.	Туре	
			[m]			
	Straight socket, M12x1, 8-pin	Straight plug, M12x1, 5-pin	0.3	8080777	NEFC-M12G8-0.3-M12G5-LK	



Accessories

Ordering data − Supply cables Data sheets → Internet: nebl					
	Electrical connection, left	Electrical connection, right	Cable length	Part no.	Type
			[m]		
	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 Data sheets → Internet: nebc					
	Electrical connection, left	Electrical connection, right	Cable length	Part no.	Туре
			[m]		
	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	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
OLD STATE OF THE S	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	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



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

