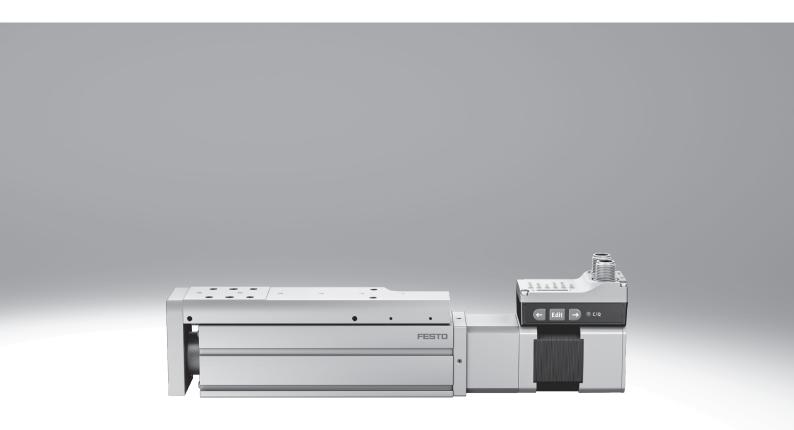
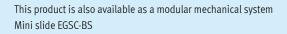
Mini slide units EGSS-BS









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

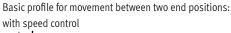
The integrated electronics in the drive are at the core of the Simplified Motion Series.

Simple

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

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

The functions of the Simplified Motion Series





• 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 ELGE



😧 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

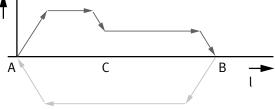
- Power (4-pin): power supply for the motor
- Logic (8-pin): control signal, sensor signal and power for the integrated electronics

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

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



Electric cylinder unit EPCS



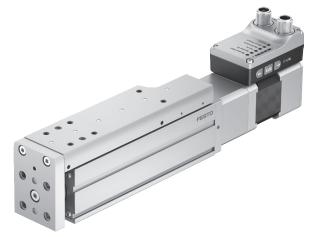
Rotary drive unit **ERMS**



٧

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:

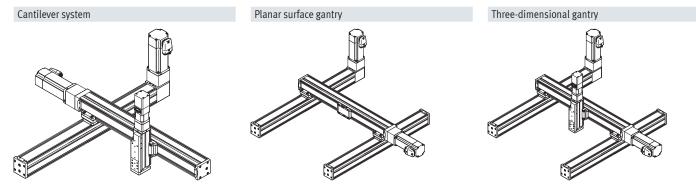


When to compact dimensions and optimised installation space are important, e.g. in assembly systems, test and inspection systems, small parts handling, the electronics industry and desktop applications. Either as an individual axis or as a handling system.

- 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.



Key features

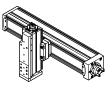
Matrix showing combinations between axis ELGC/ELGS-TB, ELGC/ELGS-BS, mini slide EGSC/EGSS-BS, electric cylinder EPCC/EPCS-BS and guide axis ELFC Mounting options with profile mounting and via angle kit

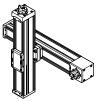
		Assembly axis ELGC-BS/-TB; ELFC; EGSC-BS; EPCC-BS; ELGS-BS/-TB; EGSS-BS, EPCS-BS					
	Size	25	32	45	60		
Base axis	32	•	-	-	-		
ELGC-BS/-TB; ELFC;	45	-		-	-		
ELGS-BS/-TB	60	-	-		-		
	80	-	-	-			

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



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

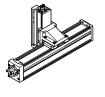




With angle kit EHAA-D-L2-...-AP



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





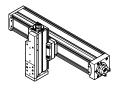
Matrix showing combinations between axis ELGC/ELGS-TB, ELGC/ELGS-BS, mini slide EGSC/EGSS-BS, electric cylinder EPCC/EPCS-BS and guide axis ELFC Assembly options with adapter kit or direct mounting

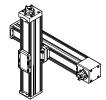
			axis ELGC-I TB; EGSS-B			; EPCC-BS;
	Size	25	32	45	60	80
Base axis	32		•	-	-	-
ELGC-BS/-TB; ELFC;	45	-	-		-	-
ELGS-BS/-TB	60	-	-	-		-
	80	-	-	-		

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



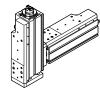




Assembly axis EGSC-BS; EGSS-BS Size 25 45 60 32 Base axis 25 EGSC-BS; 32 EGSS-BS 45 60

With direct mounting

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



NEW

Type codes

001	Series	
EGSS	Electric slide drive	
002	Drive system	
BS	Ball screw drive	
003	Guide	
KF	Recirculating ball bearing guide	
004	Size	
32	32	
45	45	
60	60	
005	Stroke	
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	

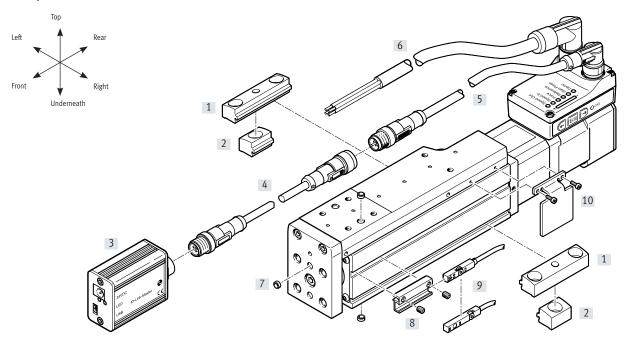
011	Bus protocol/activation
PLK	PNP and IO-Link®
NLK	NPN and IO-Link®
013	End-position sensing
AA	With integrated end-position sensing
014	Cable outlet direction
	Standard
D	Underneath
L	Left
R	Right
015	Electrical accessories
	None
L1	Adapter for operation as IO-Link® device
016	Operating instructions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

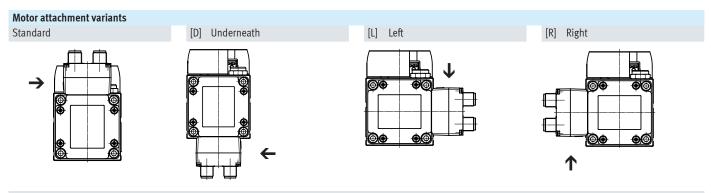
H1

Integrated

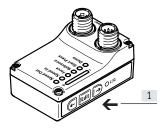
Mini slide units EGSS-BS

Peripherals overview





Control elements



[1] Pushbutton actuators for parameterisation and control

Peripherals overview

Accessories

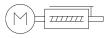
Acces	sories		
	Type/order code	Description	→ Page/Internet
[1]	Profile mounting EAHF-L2P	For mounting the axis on the side of the profile. The profile mounting can be attached to the mounting surface using the drill hole in the centre	22
[2]	Profile mounting EAHF-L2P-S	For mounting the axis on the side of the profile	23
[3]	IO-Link master USB CDSU-1	 For straightforward use of the mini slide unit via IO-Link Only for use with IO-Link Port Class A Master (recommended) 	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.

Mini slide units EGSS-BS

NEW

Data sheet



- **Ø** -Size 32 ... 60 Stroke length

-

25 ... 200 mm



General technical data

Size		32	45	60
Design		Electric mini slide with ball scre	w 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	7	
		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 slee	ve	
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	I	
Max. acceleration	[m/s ²]	5		
Repetition accuracy	[mm]	±0.015		
Reversing backlash	[µm]	150		
a 1.1 .		E 1 10 10 1		
Position sensing		For proximity switch		

1) At the drive shaft

Data sheet

Spindle					
Size		32	45	60	
Diameter	[mm]	8	10	12	
Pitch		8	10	12	
Electrical data					
Size		32	45	60	
Motor		52	رب _ا	00	
Nominal voltage DC	[V]	24 (±15%)			
Nominal voltage DC	[V] [A]	24 (±15%) 3	2	5.3	
		3	3		
Max. current consumption (load)	[A]		3	5.3	
Max. current consumption (logic) Encoder	[mA]	300			
Rotor position encoder		Absolute encoder, single tu	rn		
Rotor position encoder measuring prin	ciplo	Magnetic			
Rotor position encoder resolution	[bit]	16			
	[511]	10			
Size		32	45	60	
Parameterisation interface		1			
IO-Link		Yes			
User interface		Yes			
Digital inputs					
Number		2			
Switching logic		PNP			
		NPN			
Properties		Not galvanically isolated			
		Configurable			
Specification		Based on IEC 61131-2, typ	e 1		
Working area	[V]	24			
Digital outputs		Ι			
Number		2			
Switching logic		PNP			
		NPN			
Rotor position encoder		Absolute encoder, single tu	Irn		
Properties		Not galvanically isolated			
		Configurable			
Max. current	[mA]	100			

I

Data sheet

| Technical data – IO-Link

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			

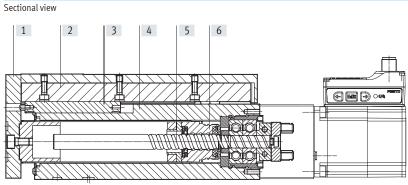
Operating and environmental conditions

Size		32	45	60
Insulation class		В		
Ambient temperature	[°C]	0 +50		
Storage temperature	[°C]	-20 +60		
Note on ambient temperature		Above an ambient ter	mperature of 30°C, the power must be reduc	ed by 2% per K
Relative humidity	[%]	0 90		
Protection class				
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	n check with severity level 1 to FN 942017-4	and EN 61800-2 and EN 61800-5-1
Shock resistance		Shock test with sever	ity 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

Data sheet

Materials



Axis

7003		
[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

Pin

1

2

3

4

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

Function

Power supply (24 V DC)

Reserved, do not connect Functional earth (FE)



Logic interface

Plug

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



When used with digital I/O Reference potential, power supply (GND)

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)					

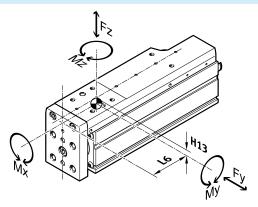
When used with I/O-Link							
Pin	Function						
1	L+ IO-Link power supply (24 V DC)						
2	Reserved, do not connect						
3	C/Q communication with the IO-Link master						
4	L – Reference potential, IO-Link power suppl						
-							

5	c/Q communication with the lo-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)

Data sheet

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 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 an	d torques for the	e bearing calculation, for a servi	ice 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	
Size Dynamic		32	45	60	
		32	45	60	
	[11]	2000	2200		
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 fv ≤ 1 , based on the maximum permissible forces and torques for a service life of 5×10^6 cycles.

This formula can be used to calculate a guide value.

The engineering software "PositioningDrives" is available

for more precise calculations \rightarrow 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:

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

 F_1/M_1 = dynamic value F_2/M_2 = maximum value NEW

Calculating the service life

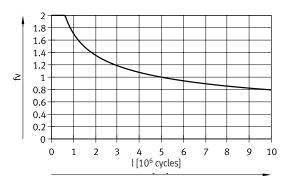
The service life of the guide depends on the load. To be able to make a statement as to the service life of the guide, the graph below plots the load comparison factor fv against the service life.

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.

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



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

Application: mass m on the slide								
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.

Data sheet

Sizing example

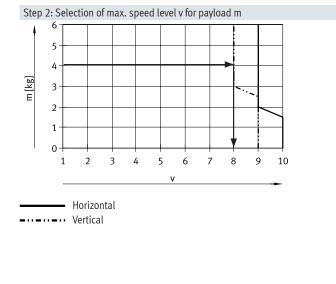
Application data:

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

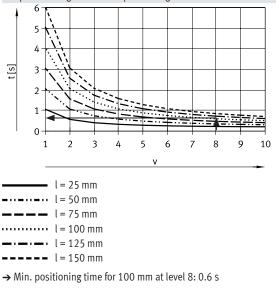
Step 1: Selection of the smallest possible size from the table \rightarrow page 8

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



Step 3: Reading off the min. positioning time t for stroke l

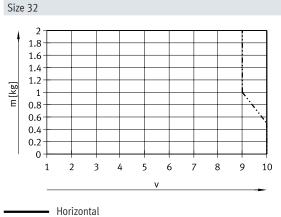


→ Max. speed level for payload: level 8

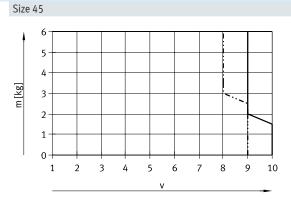
Result

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



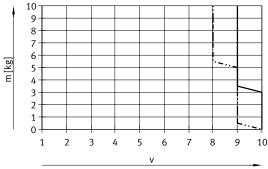
----- Vertical



NEW

Data sheet



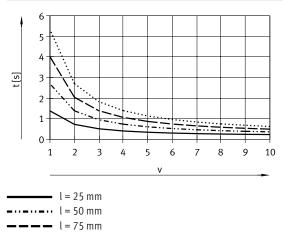


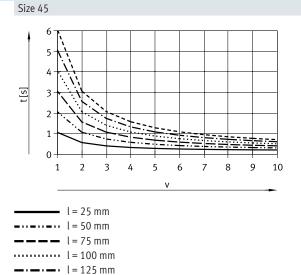
Note:

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

Horizontal

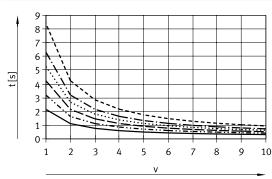






Size 60

..... l = 100 mm

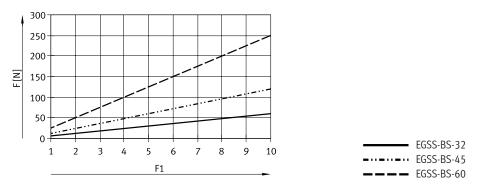


 l = 50 mm
 l = 75 mm
 l = 100 mm
 l = 125 mm
 l = 150 mm
 l = 200 mm

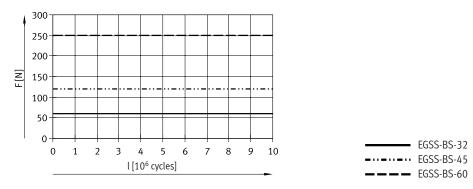
--- l = 150 mm

Data sheet

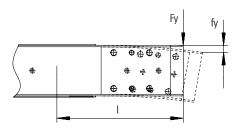
Feed force F as a function of force level F1



Feed force F as a function of service life l



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



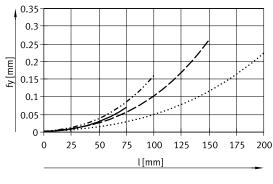
Fy/Fz at which the characteristic curves were determined

EGSS-BS-32: 10 N

Deflection fy

EGSS-BS-45: 10 N

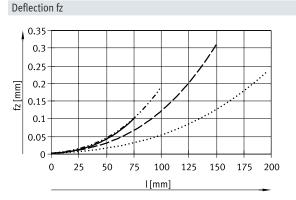




EGSS-BS-32 EGSS-BS-45 EGSS-BS-60

Fy fy

EGSS-BS-60: 10 N



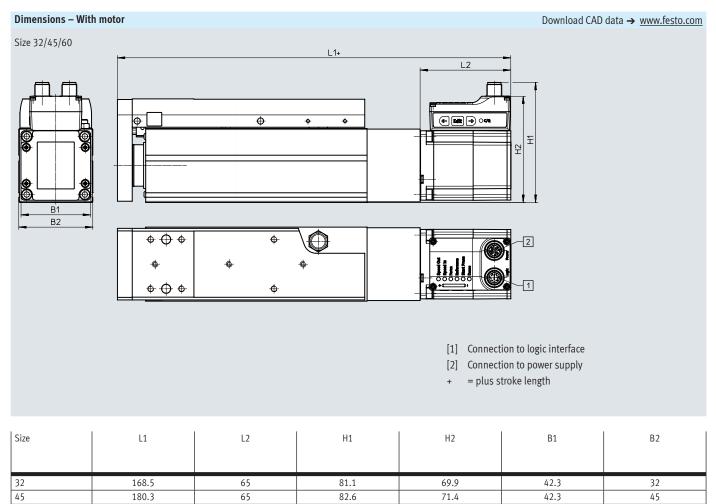
NEW

Data sheet

60

218.9

73.5



97.3

86.1

56.6

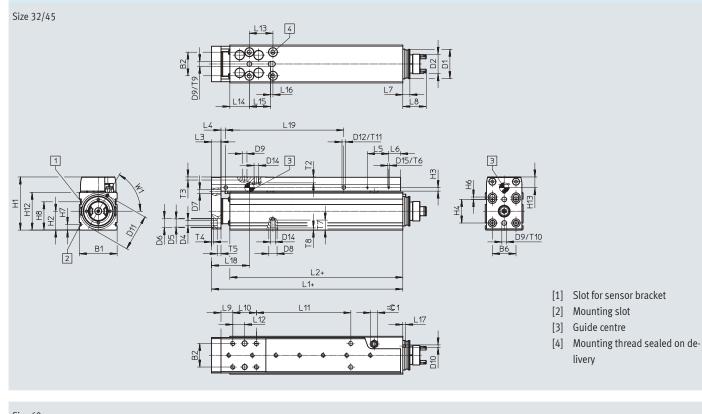
60

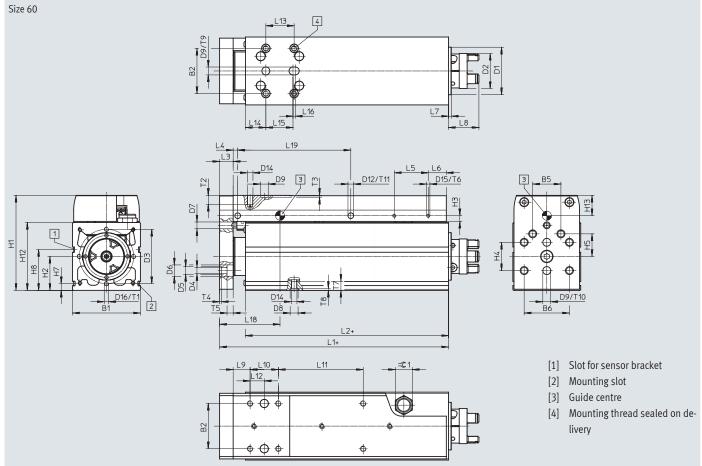
Data sheet

Dimensions – Mechanical system

Download CAD data → <u>www.festo.com</u>

NEW





NEW

Data sheet

Size	B1	B2	B5	B6	D1 Ø	D2 Ø	D3 Ø	D4 Ø	D5 Ø	D6 Ø	D7 Ø	D8 Ø	D9 Ø	D10 Ø	D11 Ø
	±0.15				-	-	~	H13	H7	H13	~	H7	H8	~	~
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	D13	D14	D15	D16	H1	H2	H3	H4	H5	H6	H7	H8	H12	H13
	Ø													±0.15	
32	3	_	M4	M1.6	_	45	16	3	20	_	2	4.9	24	32	8.4
45	3	-	M4 M5	M1.0 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
22			+0.2		±0.1			10.0	10		10			10	
32 45	62 73.8	46.5 54.5	8 10	4	18 24	10 12	6	19.9 19.9	10 15	20 25	10 12.5	20 25	16.5 17.5	18 24	2
45 60	102.4	79.5	10	4	30	12	2.5	26.9	15	25	12.5	25	30	24	2
00	102.4	79.5	12	4	50	10	2.5	20.9	15	25	12.5	25	50	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		I			L19			I			111			
3120	[mm]					L19				L11					
32	25					25				0					
52	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				
(0	150		150								125				
60	50 75					50						25			
	100					75 100						50 75			
	100					125									
	1 1 2 3					120				100					
	150					150						125			

Mini slide units EGSS-BS

Ordering data

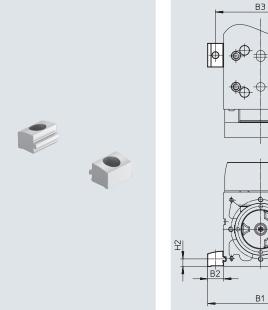
Ordering data)rdering data									
	Size	Spindle pitch	Stroke	Part no.	Туре							
, Ba	32	8	25	8083801	EGSS-BS-KF-32-25-8P-ST-M-H1-PLK-AA							
			50	8083802	EGSS-BS-KF-32-50-8P-ST-M-H1-PLK-AA							
			75	8083803	EGSS-BS-KF-32-75-8P-ST-M-H1-PLK-AA							
			100	8083804	EGSS-BS-KF-32-100-8P-ST-M-H1-PLK-AA							
	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							
CO MARTIN			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		1 22	4.5		Conditions	Code	
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					
		Adapter for operation as		+L1			
Operating instructions		With operating instruction	ons				
		Without operating instru	ictions			DN	

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

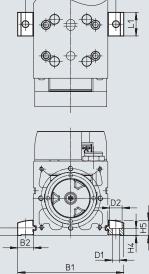
Material: Anodised wrought aluminium alloy RoHS-compliant



4.2

5.5

5.5



9

12.2

12.2

Dimensions and ordering data

32

45

60

Dimensions and (ordering data					
For size	B1	B2	B3	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
			1			
For size	H4	H5	L1	Weight	Part no. Type	
				[g]		
	±0.1					

19

19

19

4

6

6

5183153

5184133

5184133

EAHF-L2-25-P-S

EAHF-L2-45-P-S

EAHF-L2-45-P-S

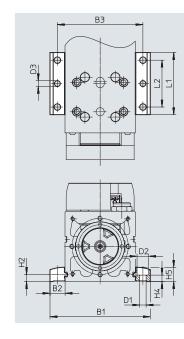
• For mounting the slide on the side of the profile

NEW

Accessories

Profile mounting EAHF-L2-...-P

Material: Anodised wrought aluminium alloy RoHS-compliant



Dimensions and ordering data

Dimensions and	ordering data							
For size	B1	B2	B3	D1	D2	C)3	H2
				Ø	ø	\$	Ø	
				H13	H13			
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	H5	L1	L2	[g]	Part no.	Туре	
32	4.2	9	53	40	19	4835684	EAHF-L2-2	5-P
		12.2	53	40	35	4835728	EAHF-L2-4	5-P
45	5.5	12.2		10				

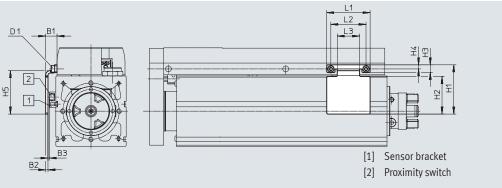
• For mounting the slide on the side of the profile. The profile mounting can be attached to the mounting surface using the drill hole in the centre

Switch lug EAPM-...-SLS

For sensing using inductive proximity switches SIES-8M







Dimensions and ordering data

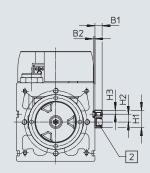
For size	B1	B2	B3	D1	H1		H2	H3	H4
32	9.2	2	1.0±0.26	M1.6	27		19	4.3	2.5
45	9.4	2	0.7±0.26	M2	37		28	5.5	3.3
60	9.7	2	0.7±0.31	M3	42		32	6.6	3.5
For size	H5	L1	L2			Weight [g]	Part no	. Type	
32	24	22	18		10 1	10	80672	59 EAPM-L2-32	-SLS
45	33	30	24		14 1	18	80672	60 EAPM-L2-45	-SLS
60	37	37	30	1	19 2	27	80672	61 EAPM-L2-60	-515

Sensor bracket EAPM-L2

Material: Anodised wrought aluminium alloy RoHS-compliant



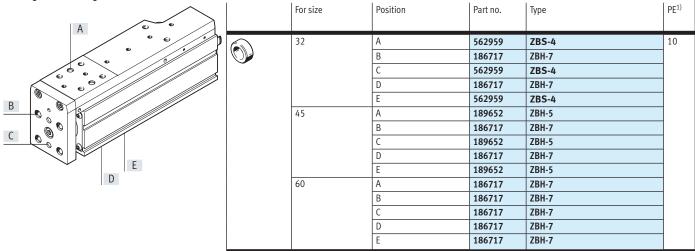
Φ ¢



Dimensions and ordering data

For size	B1	B2	D1	H1	H2
32, 45, 60	5.5	1.3	M4	13.4	6
For size	H3	L1	L2 W		Туре
32, 45, 60	3	32	25 4	4759852	EAPM-L2-SH

Ordering data – Centring sleeves



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.	Туре
N/O contact					_	
	Insertable in the slot from above, flush	PNP	Cable, 3-wire	7.5	551386	SIES-8M-PS-24V-K-7,5-0E
E-B	with the cylinder profile		Plug M8x1, 3-pin	0.3	551387	SIES-8M-PS-24V-K-0,3-M8D
C		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
	with the cylinder profile		Plug M8x1, 3-pin	0.3	551392	SIES-8M-PO-24V-K-0,3-M8D
ET BI		NPN	Cable, 3-wire	7.5	551401	SIES-8M-NO-24V-K-7,5-0E
			Plug M8x1, 3-pin	0.3	551402	SIES-8M-NO-24V-K-0,3-M8D

Ordering data – Proximity switch for T-slot, magneto-resistive

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

Ordering data – Connecting cables

Ordering data –	Drdering data - Connecting cables Data sheets → Internet:								
	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				
C			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				
Contraction of the second seco			5	541341	NEBU-M8W3-K-5-LE3				

- 🗍 - Note

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 intermediate positions.

Ordering data – IO-Link master USB

Ordering data -	Drdering data – 10-Link master USB							
	Description	Cable length [m]	Part no.	Туре				
	 For using the unit with IO-Link An external power supply plug is additionally required (not in scope of delivery) 	0.3	8091509	CDSU-1				

Ordering data – Adapter

Ordering data –	Adapter				Data sheets → Internet: nefc
	Electrical connection, left	Electrical connection, right	Cable length [m]	Part no.	Туре
alan alan	Straight socket, M12x1, 8-pin	 Straight plug, M12x1, 5-pin Only for use with IO-Link Port Class A Master (recommended) 	0.3	8080777	NEFC-M12G8-0.3-M12G5-LK

Ordering data – Supply cables

Ordering data -	Drdering data – Supply cables Data sheets → Interne							
	Electrical connection, left	Electrical connection, right	Cable length [m]	Part no.	Туре			
	Angled socket, M12x1, 4-pin	Cable, open end, 4-wire	2	8080778	NEBL-T12W4-E-2-N-LE4			
St pl			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			
STE D			5	8080791	NEBL-T12G4-E-5-N-LE4			
			10	8080792	NEBL-T12G4-E-10-N-LE4			
Ť			15	8080793	NEBL-T12G4-E-15-N-LE4			

Ordering data – Cor nectin z cable

Ordering data -	- Connecting cables				Data sheets \rightarrow Internet: nebc
	Electrical connection, left	Electrical connection, right	Cable length [m]	Part no.	Туре
	Angled socket, M12x1, 8-pin	Cable, open end, 8-wire	2	8094476	NEBC-M12W8-E-2-N-B-LE8
a al			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
Con al			5	8080787	NEBC-M12W8-E-5-N-M12G8
a martin			10	8080788	NEBC-M12W8-E-10-N-M12G8
			15	8080789	NEBC-M12W8-E-15-N-M12G8
	Straight socket, M12x1, 8-pin	Cable, open end, 8-wire	2	8094480	NEBC-M12G8-E-2-N-B-LE8
Mar 20			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
State -			5	8080783	NEBC-M12G8-E-5-N-M12G8
alim'			10	8080784	NEBC-M12G8-E-10-N-M12G8
			15	8080785	NEBC-M12G8-E-15-N-M12G8

-- Note

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

