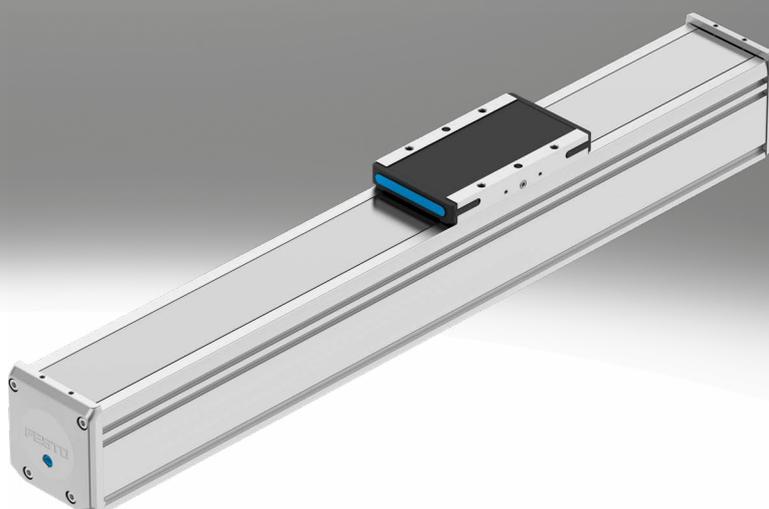


## Guide axes ELFD, without drive

**FESTO**



## Key features

### At a glance

- Driveless linear guide units with guide and freely movable slide
- The guide axis is designed to support forces and torques in multi-axis applications
- With NSF-H1 lubricant for the food zone
- Suitable for the production of Li-ion batteries

### Innovative guide technology

- Excellent rigidity and load capacity of the guide for greater loads in the same installation space
- Less vibration and smoother slide movement protect sensitive workpieces

### Innovative stainless steel cover strip solution

- Abrasion-free and clean surface protects workpieces from particles
- Minimised number of particles for use in cleanrooms
- Reduced ingress of dirt for use in harsh ambient conditions

### Options:

- Extended or additional slide for higher axial and lateral torques and higher loads

### Sealing air connection:

- Air is exchanged between the interior of the cylinder and the environment via the sealing air connection. This prevents negative pressure or excess pressure from building up inside the cylinder.
- Application of slight negative pressure prevents the emission of particles
- Application of slight excess pressure prevents the ingress of particles

### Engineering tools

More information → [electric-motion-sizing](#)



Save time with smart engineering tools for the optimal solution. Our goal is to increase your productivity. Our engineering tools play an integral part in achieving this goal. They help you size your system correctly, tap into unimagined productivity reserves and generate additional productivity along the entire value chain. In every phase of your project, from the initial contact to the modernisation of your machine, you will come across a number of different tools and useful tools.

### Electric Motion Sizing

- Create the optimum drive package quickly and reliably. Electric Motion Sizing calculates suitable combinations of electric axis, electric motor and servo drive using just a few application details. It provides you with all the relevant data including the bill of materials and documentation for the selected combination. This avoids design errors and results in significantly improved energy efficiency for the system. A smooth connection to the Festo Automation Suite also makes commissioning easier for you.

### Graphs

More information → [elfd](#)



The graphs shown in this document are also available online. There, precise values can be displayed.

### Stroke reserve

- The stroke reserve is a safety distance from the mechanical end position and is not used in normal operation.
- The sum of the stroke length and 2x stroke reserve must not exceed the maximum working stroke.

## Key features

**Stroke reserve**

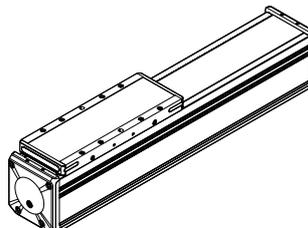
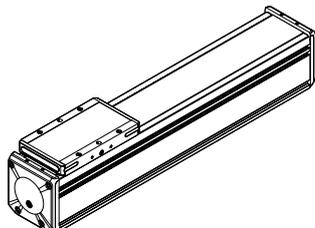
[...H] 0 ... 999 mm

- The stroke reserve is a safety distance from the mechanical end position and is not used in normal operation.
- The sum of the stroke length and 2x stroke reserve must not exceed the maximum working stroke.

**Slide design**

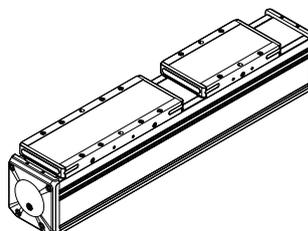
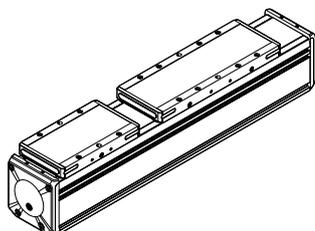
[ ] Standard

[L] Long

**Additional slide**

[ZL] Left

[ZR] Right



- The additional slide is always a standard slide

**Lubrication**

[ ] Standard

[GN] Lubrication nipple

With lifetime lubrication. Lubrication nipple not included in delivery.

- The lubrication adapters enable the guide to be permanently lubricated using semi- or fully automatic relubrication devices
- The adapters are suitable for oils and greases

**Type of mounting**

[M] Direct mounting

- If direct mounting is selected, the axis is supplied with threads in the bottom of the profile. This means that it can be installed without a profile mounting, thus saving space
- Additional centring holes allow the axis to be easily positioned in the machine

Type codes

001	Series	
ELFD	Guide axis	
002	Guide	
KF	Recirculating ball bearing guide	
003	Size	
60	60	
80	80	
120	120	
004	Stroke [mm]	
...	50 ... 8500	
005	Stroke reserve	
OH	None	
...H	0 ... 999 mm	

006	Slide design	
	Standard	
L	Slide, long	
007	Additional slide	
	None	
ZL	1 slide left	
ZR	1 slide right	
008	Lubrication	
	Standard	
GN	Lubrication nipple	
009	Type of mounting	
	Profile slots with clamping jaws	
M	Direct mounting	

## Datasheet

General technical data						
Size	60		80		120	
Slide design		L		L		L
Design	Guide					
Guide	Recirculating ball bearing guide					
Mounting position	Any					
Working stroke	[mm]					
ELFD-...	[mm]	50 ... 8500	50 ... 8500	50 ... 8500		
ELFD-...-M	[mm]	50 ... 1400	50 ... 1400	50 ... 1400		
ELFD-...-L-M	[mm]	50 ... 1400	50 ... 1400	50 ... 1370		
Max. no-load resistance to shifting	[N]	6				12.5
Max. speed	[m/s]	3				
Max. acceleration	[m/s <sup>2</sup> ]	50				
Position sensing	For inductive sensors					

Operating and environmental conditions		
Ambient temperature <sup>1)</sup>	[°C]	0 ... +60
Storage temperature	[°C]	-20 ... +60
Degree of protection		IP40
Duty cycle	[%]	100
Maintenance interval <sup>2)</sup>		Lifetime lubrication

1) Note the operating range of the proximity switches

2) The specification applies under standard conditions. For special applications, please refer to the operating manual for the maintenance intervals.

Weight [g]						
Size	60		80		120	
Slide design		L		L		L
Basic weight with 0 mm stroke <sup>1)</sup>	1261	1683	2345	3645	3993	6575
Additional weight per 10 inch stroke	49	49	76	76	112	112
Moving mass	419	643	911	1615	1369	2820

1) Incl. slide

Materials	
Axis	
End cap	Gravity die-cast aluminium, painted
Slide	Wrought aluminium alloy
Cover strip	High-alloy stainless steel
Guide	Steel
Profile	Anodised wrought aluminium alloy
Note on materials	RoHS-compliant
LABS (PWIS) conformity	VDMA24364 zone III
Suitable for the production of Li-ion batteries	Suitable for battery production with reduced Cu/Zn/Ni values (F1a)

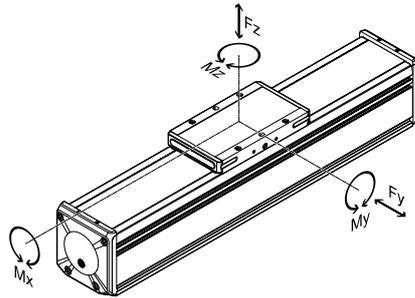
# Datasheet

## Load values

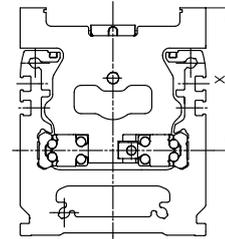
The indicated forces and torques refer to the centre of the guide.  
 The point of application of force is the point where the centre of the guide and the longitudinal centre of the slide intersect.

The appropriate size is selected using the following three steps:

1. Check the maximum permissible values (must not be exceeded)
2. Calculate the load comparison factor
3. Determine the service life



Distance from the slide surface to the centre of the guide



### Distance from the slide surface to the centre of the guide

Size		60	80	120
Dimension x	[mm]	49	62	80

### 1. Check the max. permissible values

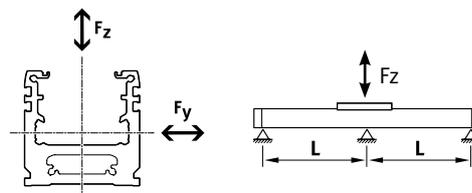
#### Max. permissible forces and torques for the overall axis (strength limits)

Size	60		80		120		
		L		L		L	
Max. force $F_y$ , overall axis	[N]	1945	3890	2800	5500	2957	5914
Max. force $F_z$ , overall axis	[N]	4300	3200	3500	5600	6500	9000
Max. torque $M_x$ , overall axis	[Nm]	68	119	136	190	251	520
Max. torque $M_y$ , overall axis	[Nm]	40	128	95	356	80	819
Max. torque $M_z$ , overall axis	[Nm]	40	133	79	383	105	527

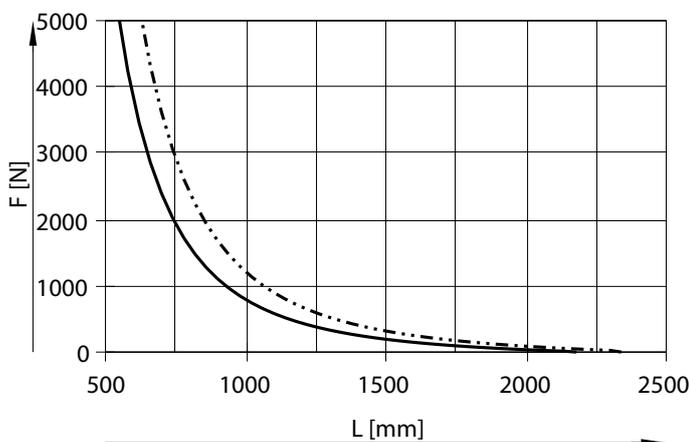
#### Maximum permissible support spacing L as a function of force F

The axis may need to be supported in order to limit deflection in the case of long strokes.

The following graphs can be used to determine the maximum permissible support spacing L as a function of force F acting on the axis.  
 The deflection is  $f = 0.5 \text{ mm}$ .

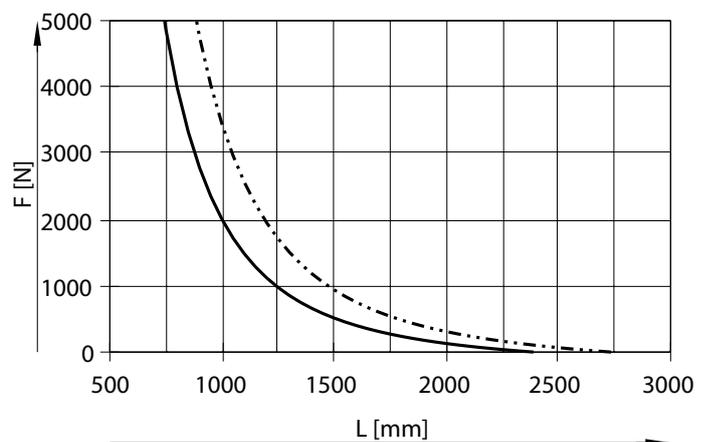


Size: 60



—  $F_y$   
 - - -  $F_z$

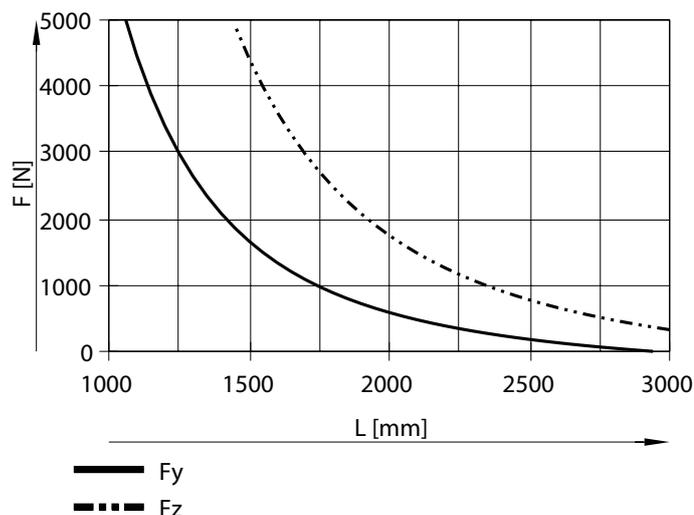
Size: 80



—  $F_y$   
 - - -  $F_z$

## Datasheet

Size: 120



### 2. Calculate the load comparison factor

**Note**

For a guide system to have a service life of 5000 km, the load comparison factor must assume a value  $f_v \leq 1$  based on the maximum permissible forces/torques for a service life of 5000 km. This formula can be used to calculate a guide value. The engineering software "Electric Motion Sizing" is available for more precise calculations → [www.festo.com/x/electric-motion-sizing](http://www.festo.com/x/electric-motion-sizing)

If the axis is subjected to several of the indicated forces and torques at the same time, the following equation must be satisfied in addition to the indicated maximum loads:

Calculating the load comparison factor:

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

$F_1/M_1$  = values occurring in the application

$F_2$  = permissible values at 5000 km from the graph "support spacing over load"

$M_2$  = maximum permissible values (see table)

#### Max. permissible torques for the guide calculation with reference service life

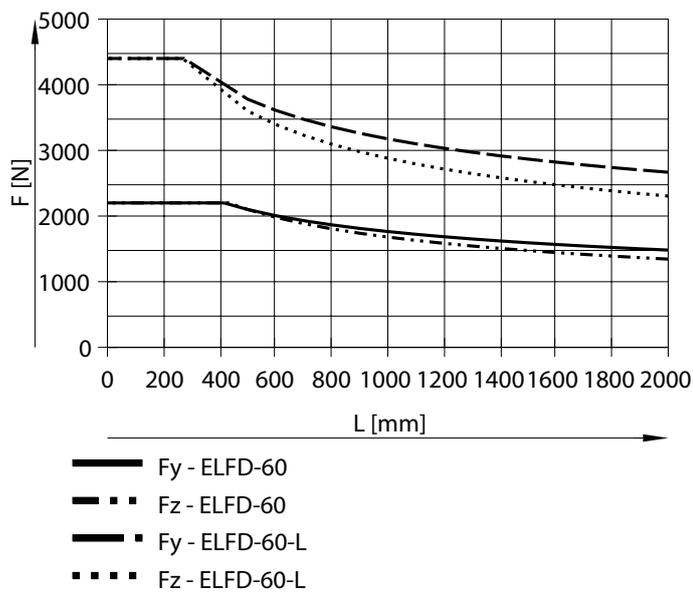
Size	60		80		120	
		L		L		L
Reference service life [km]	5000					
Max. torque Mx [Nm]	38	75	106	200	170	350
Max. torque My [Nm]	15	150	42	390	50	620
Max. torque Mz [Nm]	15	140	42	390	60	580

## Datasheet

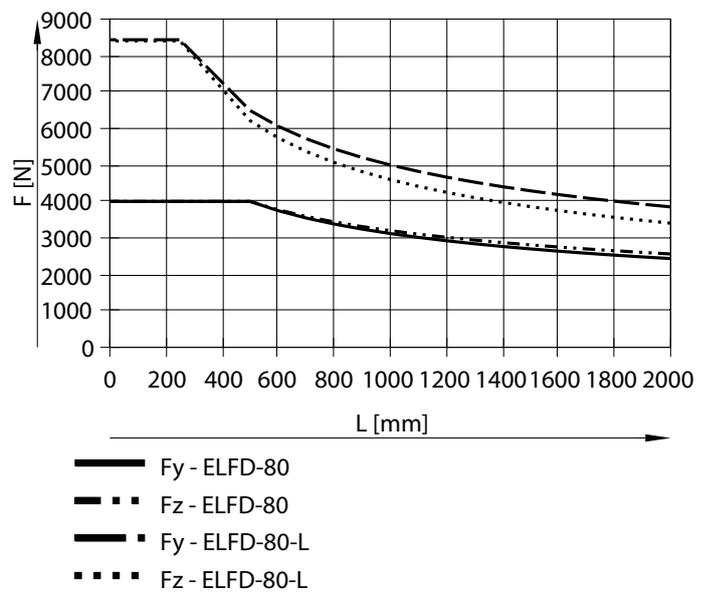
### Max. permissible support spacing L as a function of the force F

Depending on how firmly the axis is supported, the maximum permissible forces vary due to the design of the guide system. If the axis is used as a cantilever or in yoke operation, the values for a support spacing of 2000 mm can be selected.

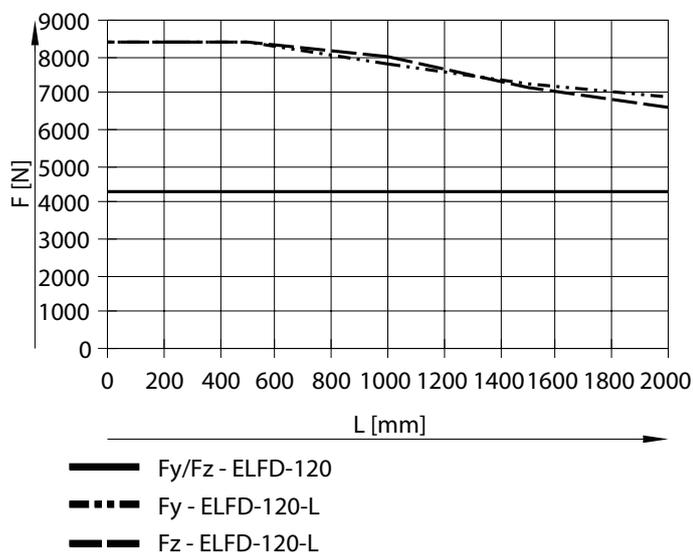
#### Size 60



#### Size 80



#### Size 120



## Datasheet

### 3. Determine the service life

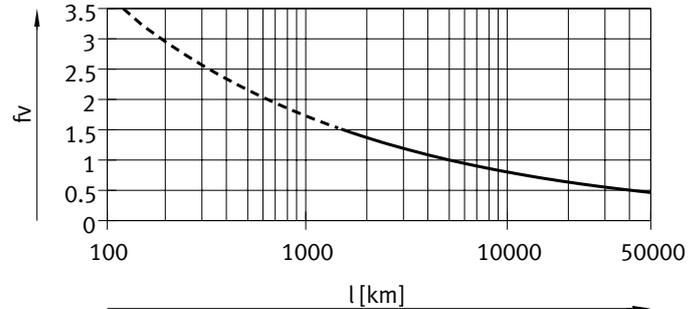
The service life of the guide depends on the load. To be able to provide an indication of the service life, the graph below plots the load comparison factor  $f_v$  against the service life.

These values are only theoretical. You must consult your local contact at Festo for a load comparison factor  $f_v$  greater than 1.3.

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 7) gives a value of 1.3 for the load comparison factor  $f_v$ . According to the graph, the guide has a service life of approx. 2500 km. Reducing the acceleration reduces the  $M_x$  and  $M_y$  values. A load comparison factor  $f_v$  of 1 now gives a service life of 5000 km.



Note:

If the application has been calculated using “Electric Motion Sizing”, the average guide comparison index represents the workload of the guide. (100% average guide comparison index corresponds to  $f_v = 1$ ). With this value, the service life can be estimated using the service life graph

### Comparison of the characteristic load values for 100 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 moments are based on an expected service life of the guide system of 100 km according to ISO or 50 km according to JIS.

To make it easier to compare the guide capacity of guide axes ELFD 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.

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.

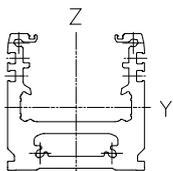
These 100 km values have been calculated mathematically and are only to be used for comparing with dynamic forces and torques to ISO. The drives must not be loaded with these characteristic values as this could damage the axes.

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

Size		60		80		120	
Slide design			L		L		L
$F_{y_{max}}$	[N]	9208	18415	17576	35153	17576	35153
$F_{z_{max}}$	[N]	9208	18415	17576	35153	17576	35153
$M_{x_{max}}$	[Nm]	157	314	422	844	730	1459
$M_{y_{max}}$	[Nm]	60	500	162	1356	162	1920
$M_{z_{max}}$	[Nm]	60	500	162	1356	162	1920

## Datasheet

### 2nd moment of area



Size		60	80	120
ly	[mm <sup>4</sup> ]	0.485x10 <sup>6</sup>	1.213x10 <sup>6</sup>	3.55x10 <sup>6</sup>
lz	[mm <sup>4</sup> ]	0.731x10 <sup>6</sup>	2.052x10 <sup>6</sup>	8.985x10 <sup>6</sup>

### Recommended deflection limits

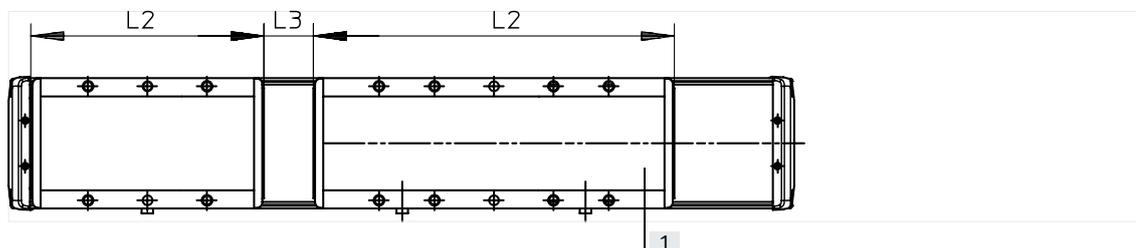
Compliance with the following critical limits for deflection is recommended to ensure the continuing functionality of the axes. Greater deformation can result in increased friction, greater wear and reduced service life.

Size	Dynamic deflection (load moves)	Stat. Deflection (stationary load)
60, 80, 120	0,05% of the length of the axis, max. 0.5 mm	0.1% of the length of the axis

### Working stroke reduction

For axis ELGT with additional slide ZL/ZR

For a ball screw axis with additional slide, the working stroke is reduced by the length of the additional slide and the distance between both slides



L2 = Slide length  
 L2 = Additional slide length  
 L3 = Distance between the two slides  
 [1] Additional slide

**Example:**  
 Type ELFD-KF-60-500-...-ZR  
 Working stroke without Additional slide = 500 mm  
 L3 = 50 mm  
 L2 = 118 mm  
 Working stroke with additional slide = 332 mm  
 (500 mm – 50 mm – 118 mm)

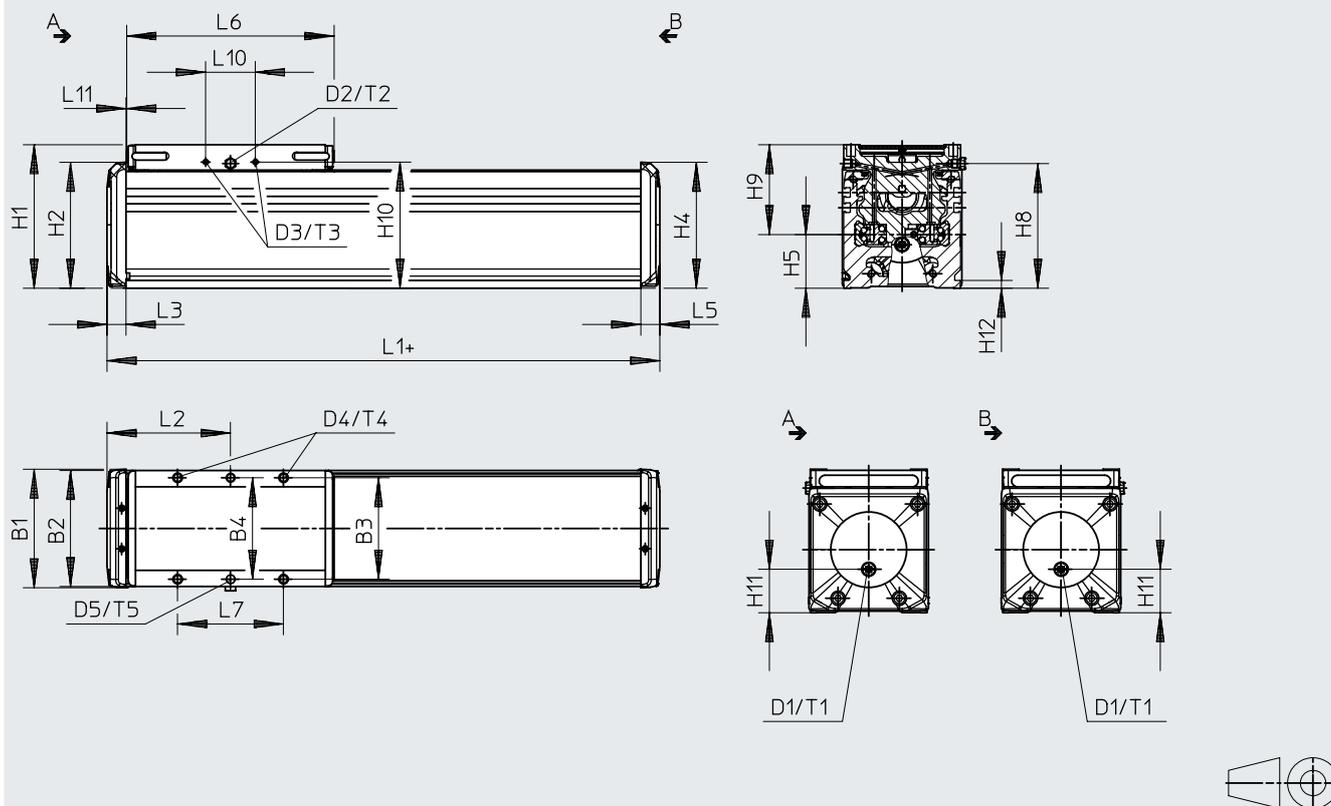
### Dimensions – Additional slide

Size		60	80	120
Length L2	[mm]	118	142	162
Min. distance between the slides L3	[mm]	≥ 50	≥ 50	≥ 50

Datasheet

Dimensions – ELFD-...

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



+ = plus stroke length + 2x stroke reserve

	B1	B2	B3	B4 ±0.03	D1	D2	D3	D4	D5 ∅ H7	H1	H2
ELFD-60	62	60	52.5	52.5	G1/8	M6	M3	M5	5	82	69.9
ELFD-80	82	80	70	70	G1/8	M6	M3	M6	6	99	86.9
ELFD-120	123	120	107	107	G1/8	M6	M3	M6	6	126.5	115

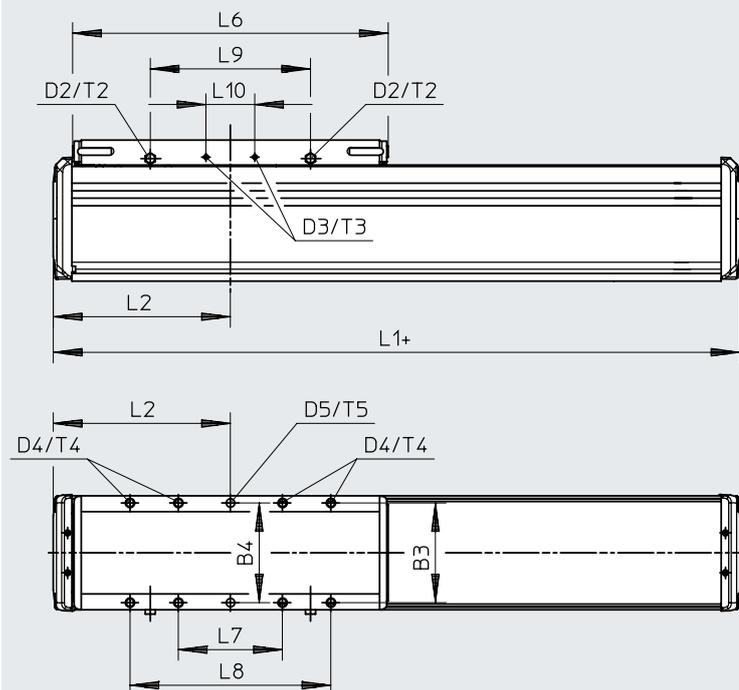
	H4	H5	H8	H9	H10	H11	H12	L1	L2 min.	L3	L5
ELFD-60	69.9	33	70	49	71	23.4	5.3	159.5	79.5	15.5	15.5
ELFD-80	86.9	37	86	62	87	30	5.3	178.5	89	13	13
ELFD-120	115	46.5	113.5	80	113.5	26.7	5.3	209.5	99	17.5	17.5

	L6	L7 ±0.1	L10	L11		T1	T2	T3	T4	T5
				min.	max.					
ELFD-60	118	50	34	1.5	5	6	6	7	16.5	7
ELFD-80	142	72.5	34	1.5	5	6	6	7	17.5	7
ELFD-120	162	92.5	34	0.5	–	6	7	7	17.5	8

Datasheet

Dimensions – ELFD-...-L (with long slide)

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



+ = plus stroke length + 2x stroke reserve

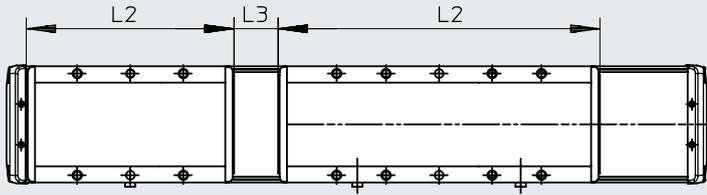
	B3	B4 ±0.03	D2	D3	D4	D5 ∅ H7	L1	L2 min.	L6
ELFD-60-L	52.5	52.5	M6	M3	M5	5	200.5	100	159
ELFD-80-L	70	70	M6	M3	M6	6	256.5	128	220
ELFD-120-L	107	107	M6	M3	M6	6	310.5	149.5	263

	L7 ±0.1	L8 ±0.1	L9	L10	T2	T3	T4	T5
ELFD-60-L	50	95	79	34	6	7	16.5	7
ELFD-80-L	72.5	140	124.6	34	6	7	17.5	7
ELFD-120-L	92.5	132.5	161	34	7	7	17.5	8

Datasheet

**Dimensions – ELFD-...-ZL/-ZR (with additional slide)**

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



	L2	L3
ELFD-60	118	50
ELFD-80	142	50
ELFD-120	162	50
ELFD-60-L	159	50
ELFD-80-L	220	50
ELFD-120L	263	50

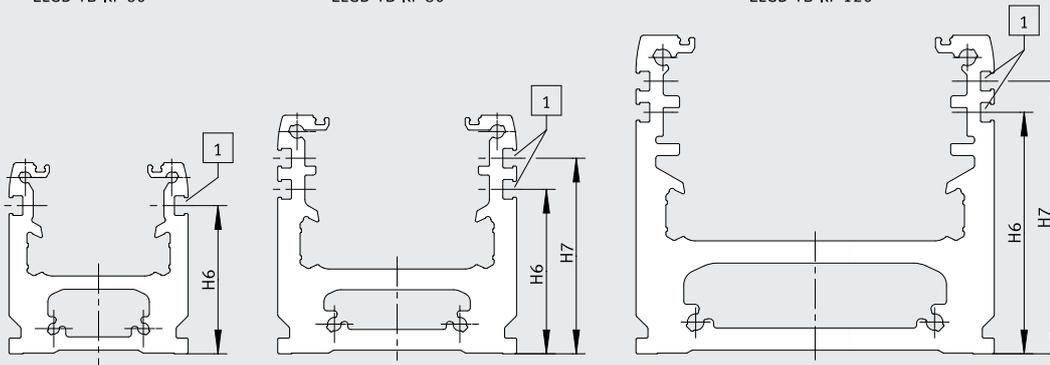
**Dimensions – ELFD-...- (profile)**

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

ELGD-TB-KF-60

ELGD-TB-KF-80

ELGD-TB-KF-120



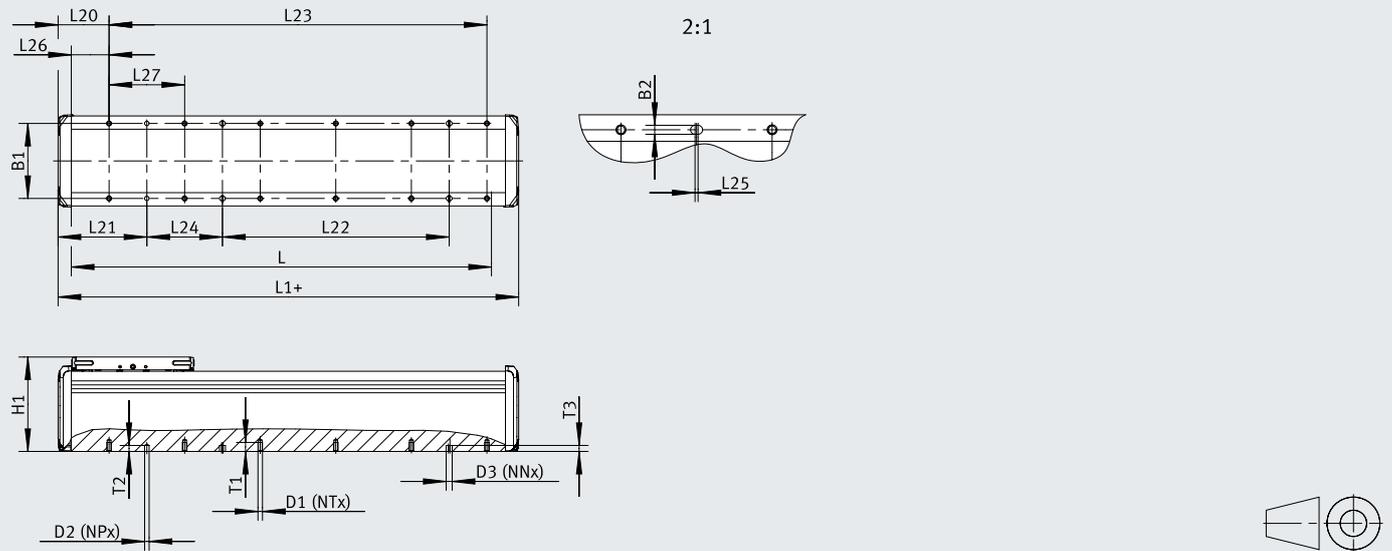
[1] Sensor slot for proximity switch

	H6	H7
ELFD-60	50	–
ELFD-80	55.5	66
ELFD-120	81.5	92

Datasheet

Dimensions - ELFD-...-M (for direct mounting)

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



+ = plus stroke length + 2x stroke reserve

$$L23 = (NT/2-1) \times 100$$

	B1	B2 H7	D1	D2 ∅ H7	H1	L	L20	L21
ELFD-60-...-M	43	6	M5	6	81.4	128.5	65.5	115.5
ELFD-60-...-L-M			169.5					
ELFD-80-...-M	61	6	M6	6	98.4	152.5	63	113
ELFD-80-...-L-M			230.5					
ELFD-120-...-M	100	6	M6	6	125.9	174.5	67.5	117.5
ELFD-120-...-L-M			275.5					

	L25	L26	L27	T1	T2	T3
ELFD-60-...-M	2	50	100	10.5	8	8
ELFD-60-...-L-M				12.5		
ELFD-80-...-M	2	50	100	12.5	8	8
ELFD-80-...-L-M				12.5		
ELFD-120-...-M	2	50	100	12.5	8	8
ELFD-120-...-L-M				12.5		

## Datasheet

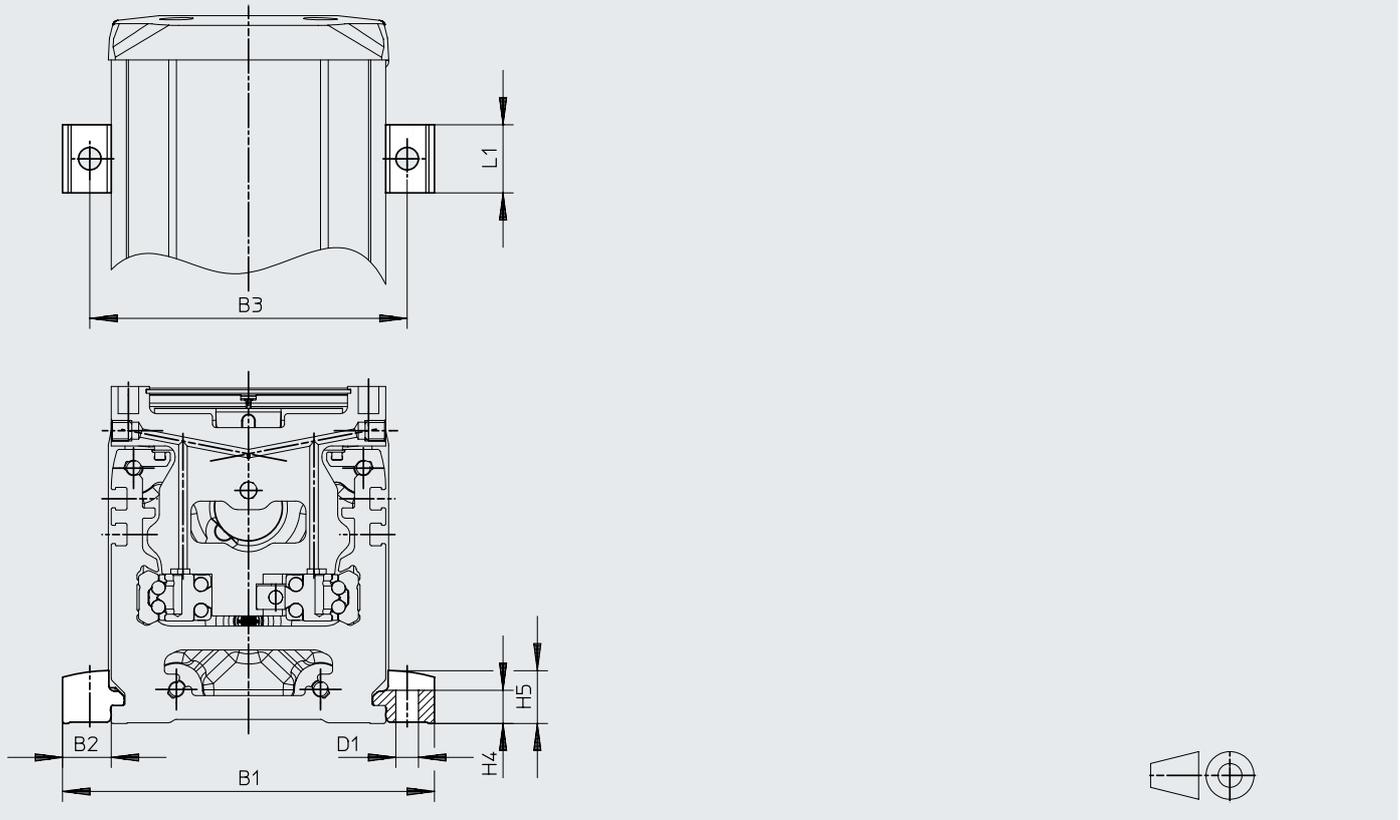
L	D1 <sup>1)</sup>		D2 <sup>2)</sup>	D3 <sup>3)</sup>		L24
	NT	L23	NP	NN	L22	
<270	4	100	2	–	–	100
≥270	6	200		2	–	
≥370	8	300		4	100	
≥470	10	400			200	
≥570	12	500			300	
≥670	14	600			400	
≥770	16	700			500	
≥870	18	800			600	
≥970	20	900			700	
≥1070	22	1000			800	
≥1170	24	1100			900	
≥1270	26	1200			1000	
≥1370	28	1300			1100	
≥1470	30	1400			1200	
≥1570	32	1500			1300	
≤1650						

- 1) Threaded hole  
2) Pin hole  
3) Slotted hole

Datasheet

Dimensions – Profile mounting EAHF-E24-60-P-S

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

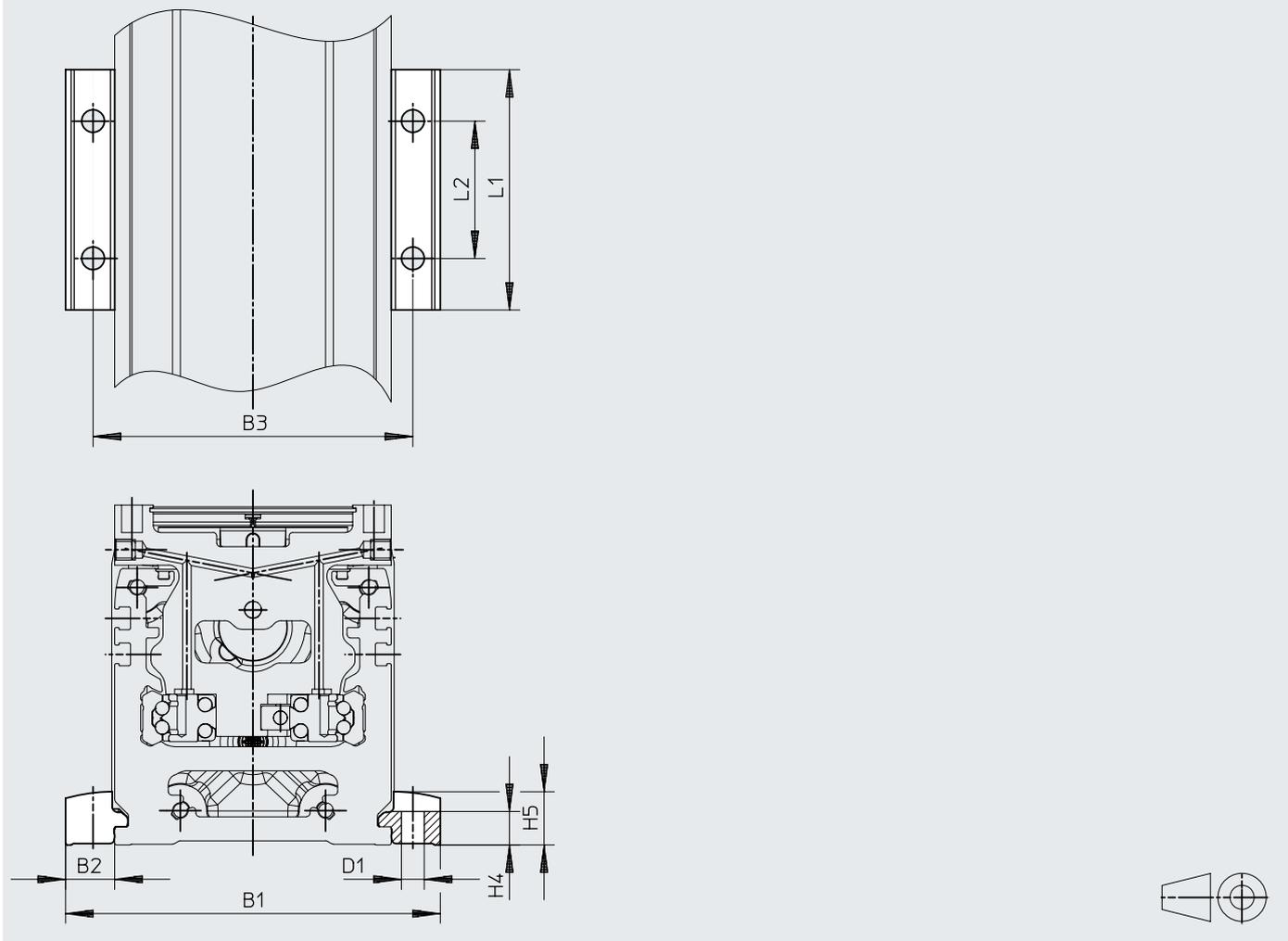


		B1	B2	B3	D1 ∅ H13	H4	H5	L1
EAHF-E24-60-P-S	ELFD-60	88.4	14.2	72.5	6.6	10.3	16.5	20
	ELFD-80	108.4	14.2	92.5	6.6	10.3	16.5	20
	ELFD-120	148.4	14.2	132.5	6.6	10.3	16.5	20

Datasheet

Dimensions – Profile mounting EAHF-E24-60-P

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

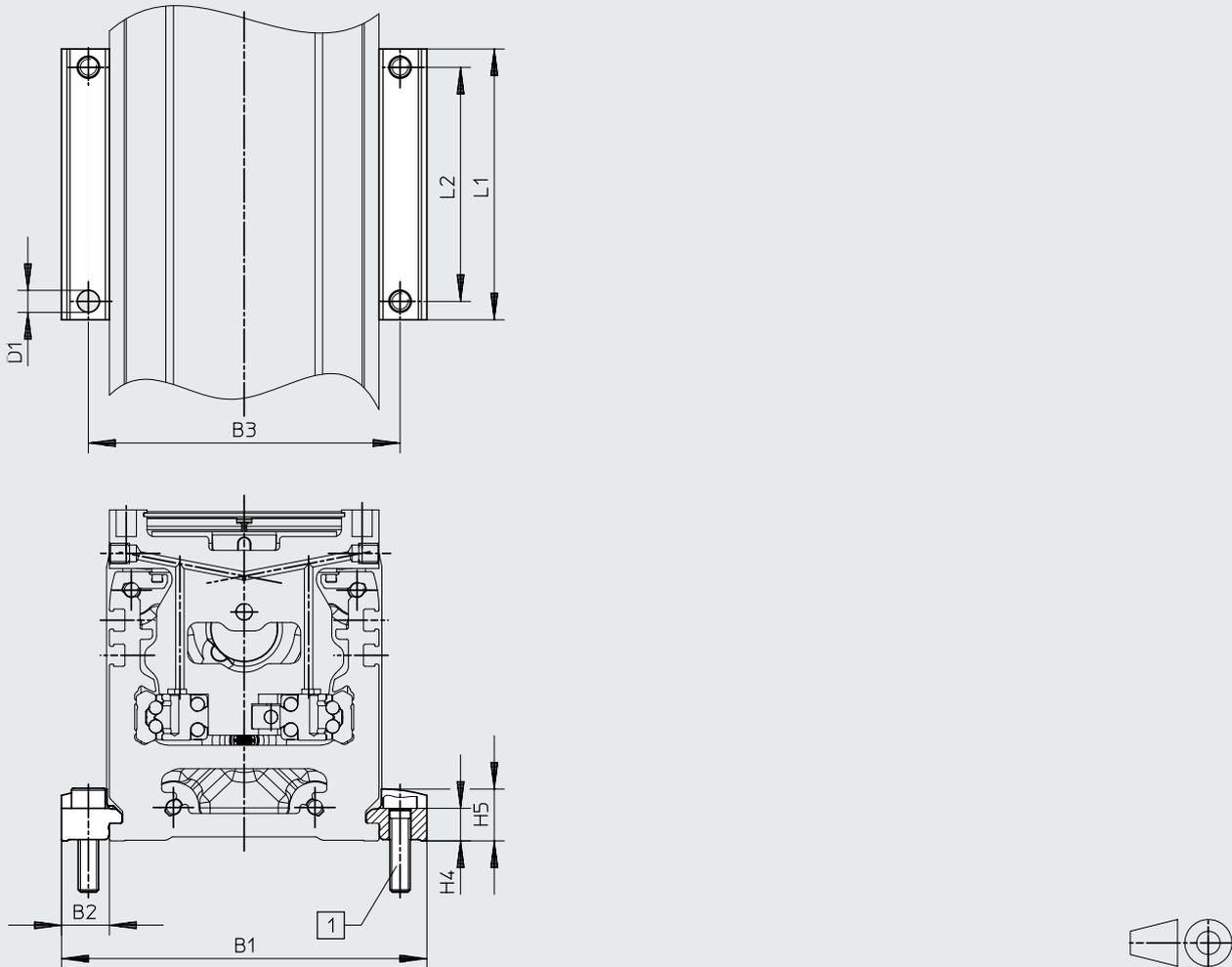


		B1	B2	B3	D1 ∅ H13	H4	H5	L1	L2
EAHF-E24-60-P	ELFD-60	88.4	14.2	72.5	6.6	10.3	16.5	70	40
	ELFD-80	108.4	14.2	92.5	6.6	10.3	16.5	70	40
	ELFD-120	148.4	14.2	132.5	6.6	10.3	16.5	70	40

Datasheet

Dimensions – Profile mounting EAHF-E24-60-P-D

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

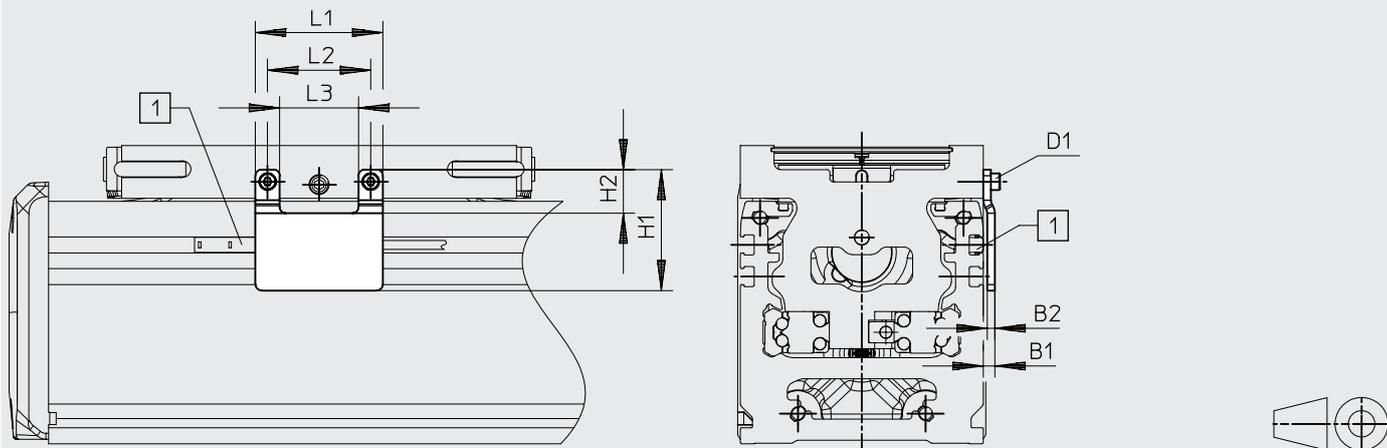


		B1	B2	B3	D1 ∅ H13	H4	H5	L1	L2
EAHF-E24-60-P-D5	ELFD-60	88.4	14.2	72.5	5.5	10.3	16.5	62	52.5
EAHF-E24-60-P-D4	ELFD-80	108.4	14.2	92.5	6.6	10.3	16.5	81	70
EAHF-E24-60-P-D7	ELFD-120	148.4	14.2	132.5	6.6	10.3	16.5	120	107

Datasheet

**Dimensions – Switch lug EAPM-E24-60-SLS**

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



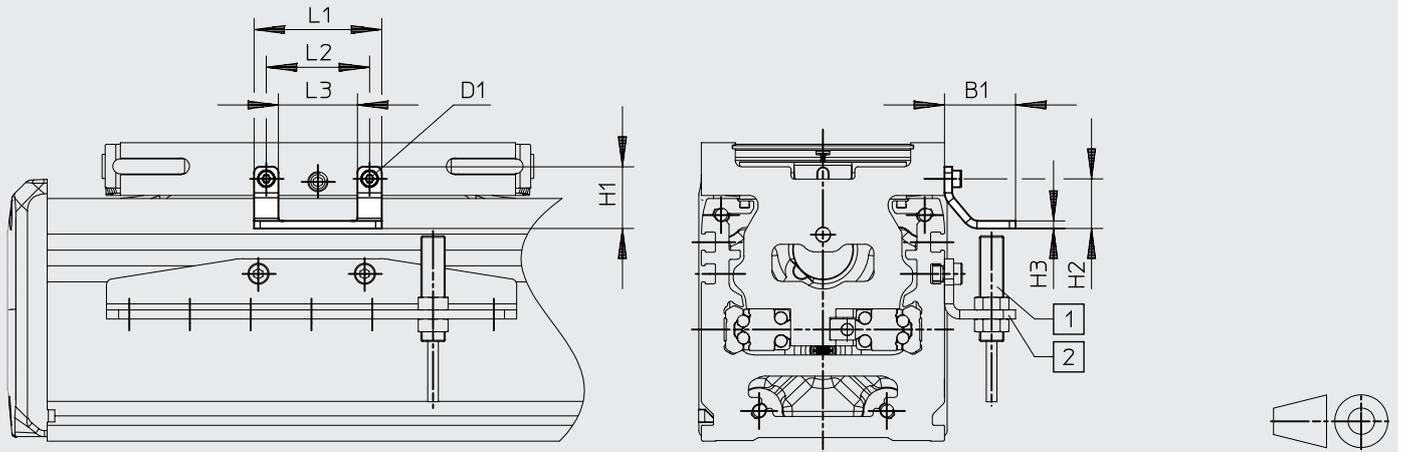
[1] Sensor slot for proximity switch SIES-8M

		B1	B2	D1	H1	H2	L1	L2	L3
EAPM-E24-60-SLS	ELFD-60	3.8	2.5	M3x8	40.2	14.5	42	34	26
	ELFD-80								
	ELFD-120								

Datasheet

Dimensions – Switch lug EAPM-E24-...-SLE

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



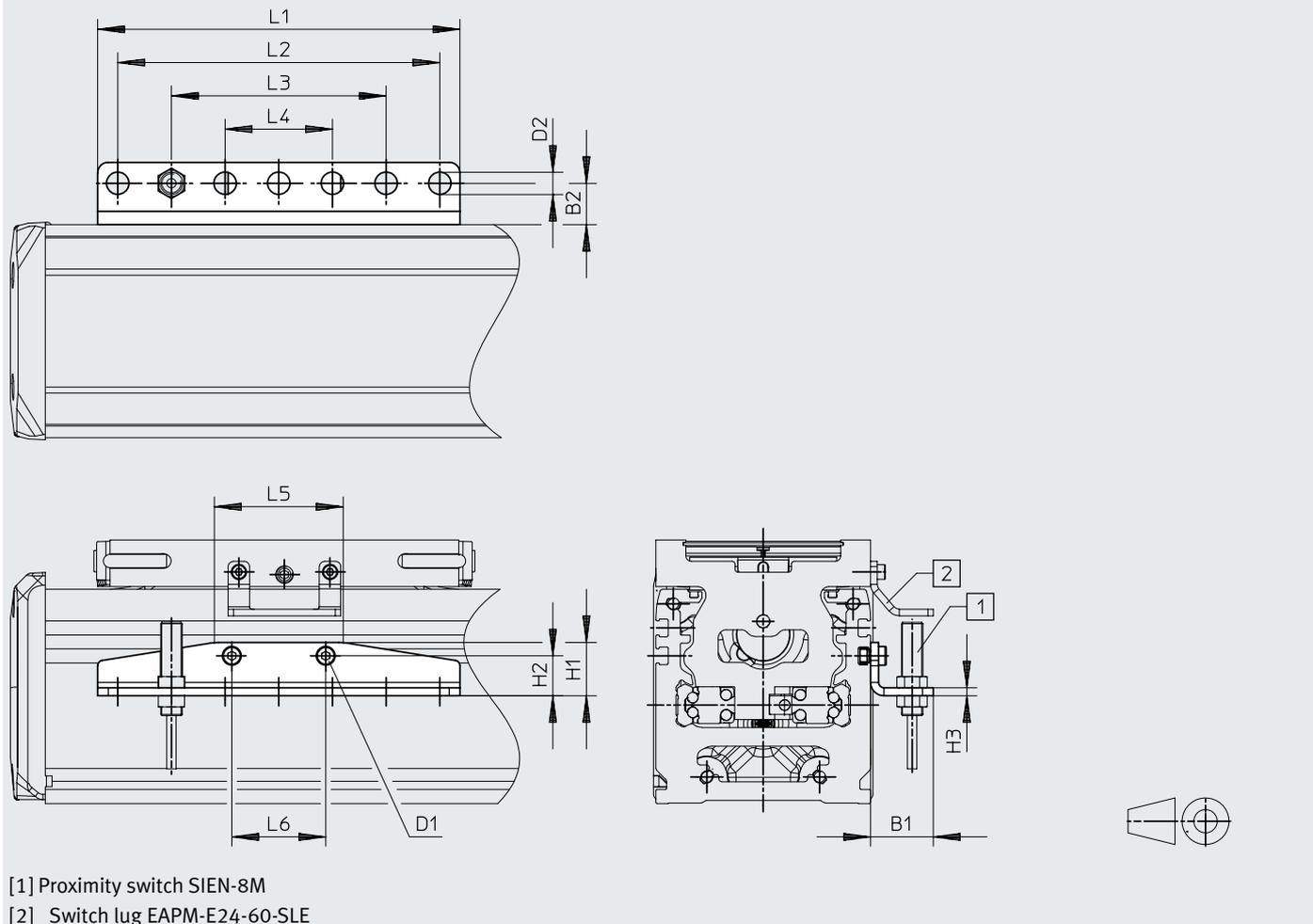
- [1] Proximity switch SIEN-M8
- [2] Sensor bracket EAPM-E24-60-SHE

		B1	D1	H1	H2	H3	L1	L2	L3
EAPM-E24-60-SLE	ELFD-60	23.4	M3	20.5	16.5	2.5	42	34	26
	ELFD-80								
	ELFD-120								

Datasheet

Dimensions – Sensor bracket EAPM-E24-60-SHE

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



- [1] Proximity switch SIEN-8M
- [2] Switch lug EAPM-E24-60-SLE

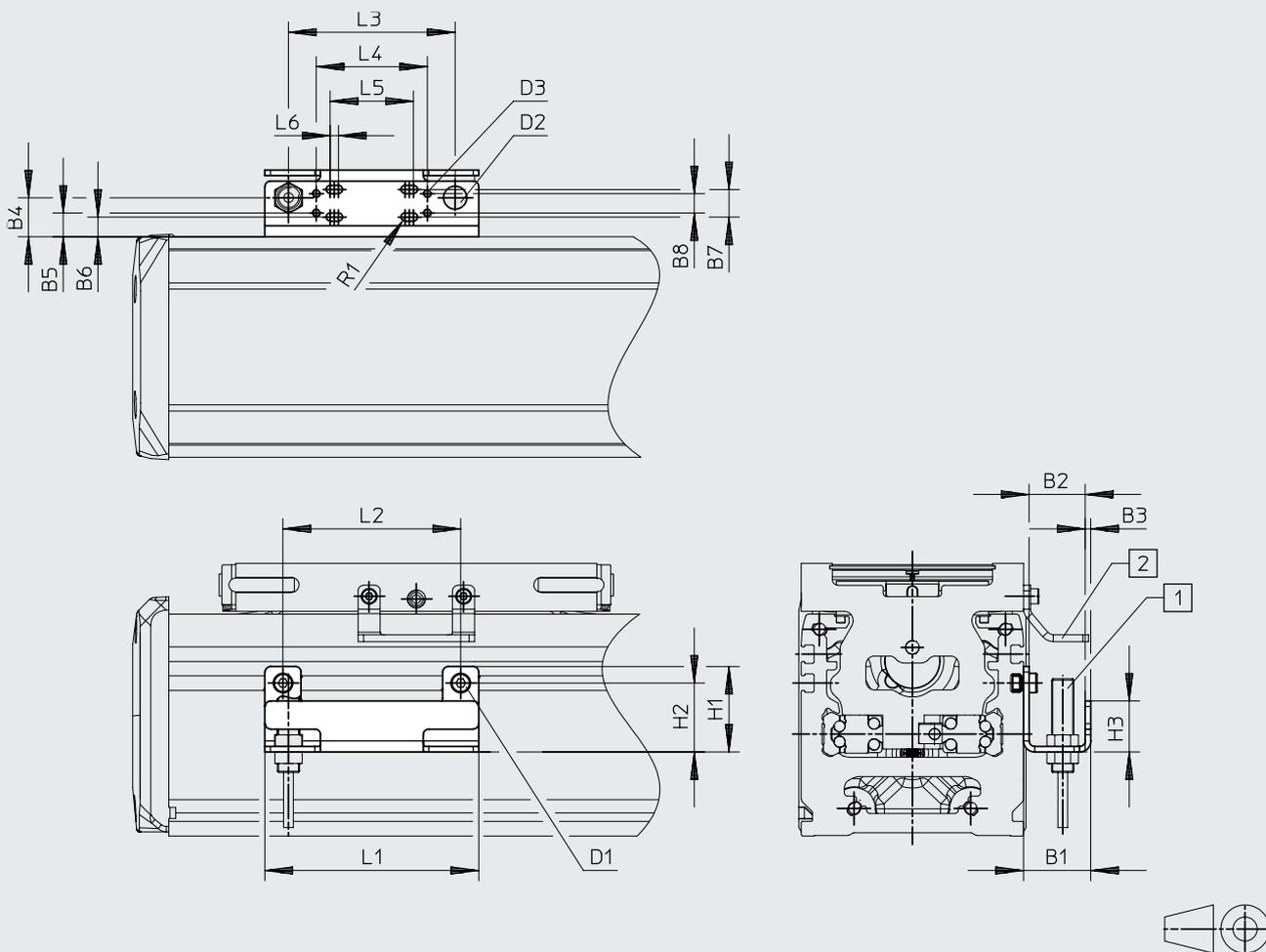
		B1	B2	D1	D2	H1	H2	H3
		±0.3			∅ H13	±0.3		
EAPM-E24-60-SHE	ELFD-60	23.4	15.5	M4x6	8.4	20	15	3
	ELFD-80							
	ELFD-120							

		L1	L2	L3	L4	L5	L6
		±0.2					
EAPM-E24-60-SHE	ELFD-60	135	120	80	40	48	35
	ELFD-80						
	ELFD-120						

Datasheet

Dimensions – Sensor bracket EAPM-E24-60-SHO

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



- [1] Inductive sensor (Omron)
- [2] Switch lug EAPM-E24-60-SLE

		B1	B2	B3	B4	B5	B6	B7
EAPM-E24-60-SHO	ELFD-60	24.2	20.2	2	14.1	8.6	7.1	10
	ELFD-80							
	ELFD-120							

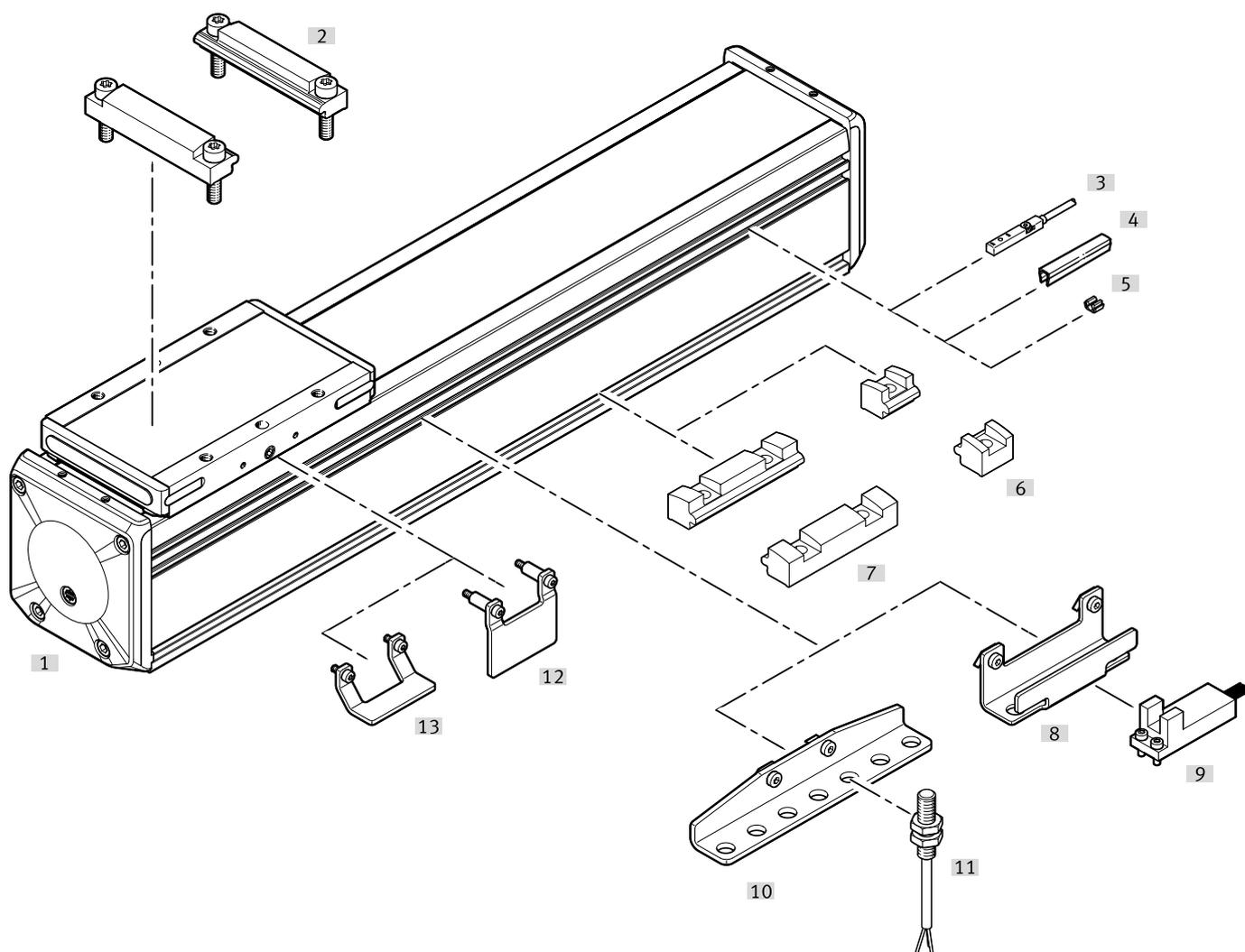
		B8	D1	D2 ∅	D3	H1	H2	H3
EAPM-E24-60-SHO	ELFD-60	7	M3	8.4	M3	31	25	18.5
	ELFD-80							
	ELFD-120							

		L1	L2	L3	L4	L5	L6	R1
EAPM-E24-60-SHO	ELFD-60	77	64	60	40	24	3	1.5
	ELFD-80							
	ELFD-120							

## Datasheet

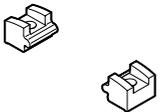
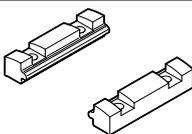
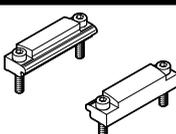
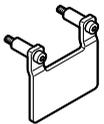
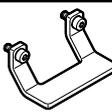
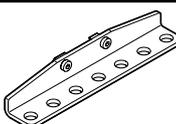
Ordering data – Modular product system				More information → <a href="#">elfd</a>
	Size	Stroke [mm]	Part no.	Type
	60	50 ... 8500	<b>8182487</b>	<b>ELFD-KF-60-...</b>
	80	50 ... 8500	<b>8182488</b>	<b>ELFD-KF-80-...</b>
	120	50 ... 8500	<b>8182489</b>	<b>ELFD-KF-120-...</b>

Peripherals overview

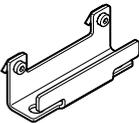


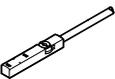
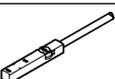
Accessories		
Type	Description	→ Page/Internet
[1] Guide axis ELFD	Guide axis	elfd
[2] Profile mounting EAHF-E24-...-D...	For axis/axis mounting with adapter plate	25
[3] Proximity switch, T-slot SIES-8M	Inductive proximity switch, for T-slot	26
[4] Slot cover ABP-S	For protection against contamination	26
[5] Clip SMBK	For mounting the proximity switch cable in the slot	26
[6] Profile mounting EAHF-E24-...-S	For mounting the axis on the side of the profile	25
[7] Profile mounting EAHF-E24-...	For mounting the axis on the side of the profile	25
[8] Sensor bracket EAPM-E24-SHO	For mounting third-party sensors on the axis	26
[9] Sensor OMRON	Third-party sensor OMRON, EE-SX674 series	-
[10] Sensor bracket EAPM-E24-SHE	For mounting the inductive proximity switches SIEN-M8 (round design) on the axis	25
[11] Proximity switch, M8 SIEN-M8	Inductive proximity switch, round design	26
[12] Switch lug EAPM-E24-SLS	For sensing the slide position using inductive proximity switch SIES-8M or for optical sensors (Omron) with sensor bracket EAPM-E24-SHO	25
[13] Switch lug EAPM-E24-SLE	For sensing the slide position using inductive proximity switch SIEN-M8 (round design) and sensor bracket EAPM-E24-SHE	25

## Accessories

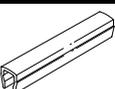
Profile mounting EAHF-E24-...-P-S					
	Description	Material	Product weight	Part no.	Type
	For sizes 60, 80, 120	Anodised wrought aluminium alloy	18 g	<b>8197128</b>	<b>EAHF-E24-60-P-S</b>
Profile mounting EAHF-E24-...-P					
	Description	Material	Product weight	Part no.	Type
	For sizes 60, 80, 120	Anodised wrought aluminium alloy	71 g	<b>8197132</b>	<b>EAHF-E24-60-P</b>
Profile mounting EAHF-E24-...-P-D...					
	Description	Material	Product weight	Part no.	Type
	ELGD-60 on ELGD-60	Anodised wrought aluminium alloy	87 g	<b>8197131</b>	<b>EAHF-E24-60-P-D5</b>
	ELGD-60 to ELGD-80		119 g	<b>8197129</b>	<b>EAHF-E24-60-P-D4</b>
	ELGD-60 to ELGD-100-L		133 g	<b>8197130</b>	<b>EAHF-E24-60-P-D6</b>
	ELGD-80 to ELGD-100-L		133 g	<b>8197130</b>	<b>EAHF-E24-60-P-D6</b>
	ELGD-80 to ELGD-120-L		165 g	<b>8229954</b>	<b>EAHF-E24-60-P-D7</b>
	ELGD-100-L to ELGD-120-L		165 g	<b>8229954</b>	<b>EAHF-E24-60-P-D7</b>
Switch lug EAPM-E24-...-SLS					
	Description	Material	Product weight	Part no.	Type
	For sizes 60, 80, 120	Steel	32 g	<b>8197117</b>	<b>EAPM-E24-60-SLS</b>
Switch lug EAPM-E24-...-SLE					
	Description	Material	Product weight	Part no.	Type
	For sizes 60, 80, 120	Steel	20 g	<b>8197116</b>	<b>EAPM-E24-60-SLE</b>
Sensor bracket EAPM-E24-...-SHE					
	Description	Material	Product weight	Part no.	Type
	For sizes 60, 80, 120	Steel	103 g	<b>8197123</b>	<b>EAPM-E24-60-SHE</b>

Accessories

Sensor bracket EAPM-E24-...-SHO						
	Description	Material	Product weight	Part no.	Type	
	For sizes 60, 80, 120	Steel	67 g	<b>8197121</b>	<b>EAPM-E24-60-SHO</b>	

Proximity switch for T-slot, inductive							Datasheets → Internet: sies
	Type of mounting	Switching output	Electrical connection	Cable length [m]	Part no.	Type	
<b>N/O</b>							
	Inserted in the slot from above, flush with the cylinder profile	PNP	Cable, 3-core	7.5	<b>551386</b>	<b>SIES-8M-PS-24V-K-7.5-OE</b>	
			Plug M8x1, 3-pin	0.3	<b>551387</b>	<b>SIES-8M-PS-24V-K-0.3-M8D</b>	
		NPN	Cable, 3-core	7.5	<b>551396</b>	<b>SIES-8M-NS-24V-K-7.5-OE</b>	
			Plug M8x1, 3-pin	0.3	<b>551397</b>	<b>SIES-8M-NS-24V-K-0.3-M8D</b>	
<b>N/C</b>							
	Inserted in the slot from above, flush with the cylinder profile	PNP	Cable, 3-core	7.5	<b>551391</b>	<b>SIES-8M-PO-24V-K-7.5-OE</b>	
			Plug M8x1, 3-pin	0.3	<b>551392</b>	<b>SIES-8M-PO-24V-K-0.3-M8D</b>	
		NPN	Cable, 3-core	7.5	<b>551401</b>	<b>SIES-8M-NO-24V-K-7.5-OE</b>	
			Plug M8x1, 3-pin	0.3	<b>551402</b>	<b>SIES-8M-NO-24V-K-0.3-M8D</b>	

Proximity switch M8 (round design), inductive							Datasheets → Internet: sien
	Switching output	Electrical connection	Cable length [m]	Part no.	Type		
<b>N/O</b>							
	PNP	Cable, 3-core	2.5	<b>150386</b>	<b>SIEN-M8B-PS-K-L</b>		
	NPN		2.5	<b>150384</b>	<b>SIEN-M8B-NS-K-L</b>		
	PNP	Plug M8x1, 3-pin	–	<b>150387</b>	<b>SIEN-M8B-PS-S-L</b>		
	NPN		–	<b>150385</b>	<b>SIEN-M8B-NS-S-L</b>		
<b>N/C</b>							
	PNP	Cable, 3-core	2.5	<b>150390</b>	<b>SIEN-M8B-PO-K-L</b>		
	NPN		2.5	<b>150388</b>	<b>SIEN-M8B-NO-K-L</b>		
	PNP	Plug M8x1, 3-pin	–	<b>150391</b>	<b>SIEN-M8B-PO-S-L</b>		
	NPN		–	<b>150389</b>	<b>SIEN-M8B-NO-S-L</b>		

Slot cover ABP-5-S1						
	Description	Material	Pack size	Product weight	Part no.	Type
	For sizes 60, 80, 120	ABS	2 each 0.5m	13 g	<b>563360</b>	<b>ABP-5-S1</b>

Clip SMBK						
	Description	Pack size	Product weight	Part no.	Type	
	For sizes 60, 80, 120	10	1g	<b>534254</b>	<b>SMBK-8</b>	