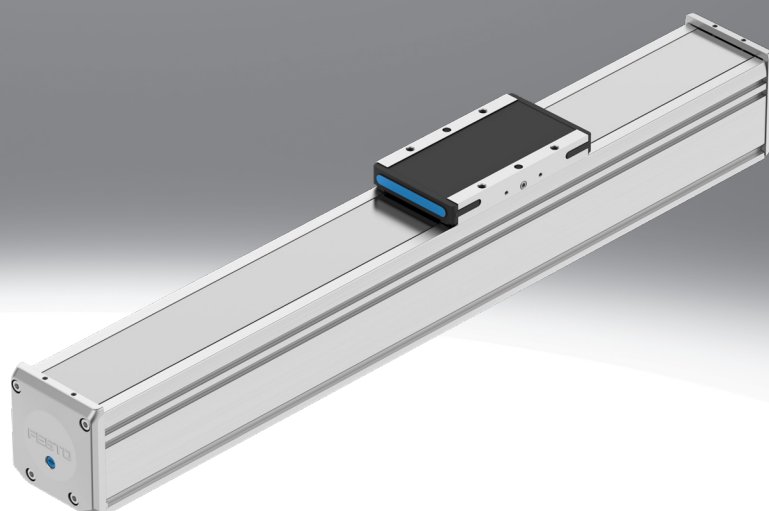


Guide axes ELFD, without drive

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. These can be used to display precise values.

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

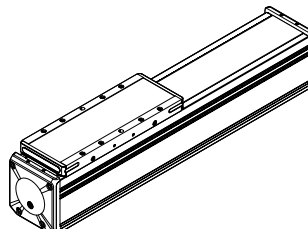
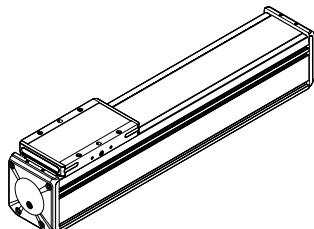
[...H] 0 ... 999 mm

- 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

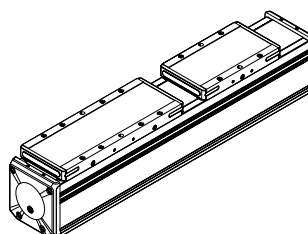
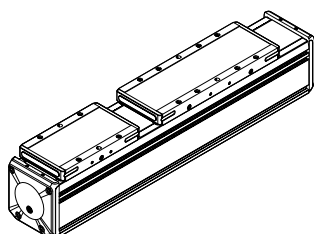
[L] Long



Additional slide

[ZL] Left

[ZR] Right



- The additional slide is always a standard slide

Speed

[] Standard

[S1] High speed (Level 1)

- Max. speed up to 3 m/s

- Max. speed up to 5 m/s

[S2] High speed (Level 2)

- Maximum speed up to 10 m/s (without cover strip)

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

- When direct mounting is selected, the axis is supplied with threads in the underside of the profile. It can then be mounted without profile mountings, which saves space
- Additional centring holes make it easy to install the axis 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						
ELGD-...	[m/s]	3				
ELGD-...-S1	[m/s]	5			4.5	
ELGD-...-S2-P0 ¹⁾	[m/s]	10				
Max. acceleration						
ELGD-...-PU1	[m/s²]	50				
ELGD-...-PU2	[m/s²]	100				
Position sensing	For inductive sensors					

1) Without cover strip

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

1) Including 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-C1-L					
Suitable for the production of Li-ion batteries	Suitable for battery production with reduced Cu/Zn/Ni values (F1a)					

Operating and environmental conditions

Ambient temperature ¹⁾	[°C]	0 ... +60
Storage temperature	[°C]	-20 ... +60
Degree of protection		IP40
Duty cycle	[%]	100
Maintenance interval ²⁾		Lifetime lubrication

1) Note operating range of proximity switches

2) This information applies under standard conditions. Please refer to the operating manual for maintenance intervals for specific applications.

Datasheet

Cleanroom suitability

The axis ELFD is designed for cleanroom applications and tested under typical operating conditions. The ISO class is determined using standardised testing procedures in which particle emissions are measured for several hours until stable values are reached. The classification of the cleanroom class is carried out according to ISO 14644 14 using reliable statistical methods. The tests are carried out with 100% duty cycle. The ISO class is determined over a period of 100 minutes to obtain reliable performance data.

The standard grease used in the ELFD has a low particle emission and is therefore well suited for cleanroom applications.

Our engineering team can carry out a detailed assessment for applications with specific cleanroom requirements and recommend an optimal configuration that is tailored to your process.

Size	60	80	120
Suitable for cleanrooms, measured according to ISO 14644-14	ISO class 4 (vacuum) ISO class 6		

1) In order to achieve the required ISO class, the axis must be cleaned and correctly prepared before commissioning.

ISO class			4			5				6				7				
Speed			[m/s]			0.1	0.5	1		0.1	0.5	1	1.5	0.1	0.5	1	1.5	
			For size															
Required vacuum flow rate	60	[l/min]	0	50	**	0	30	50	30	0	0	10	10	0	0	0	*	*
	80	[l/min]	0	30	50	0	10	10	50	0	0	0	0	0	0	0	10	*
	120	[l/min]	**	*	*	0	10	30	30	0	*	10	**	0	*	0	0	0

* Not measured

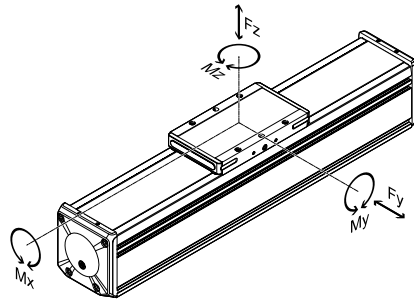
** Not reached

Datasheet

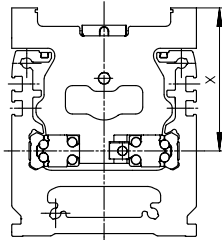
Load values

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 maximum permissible values

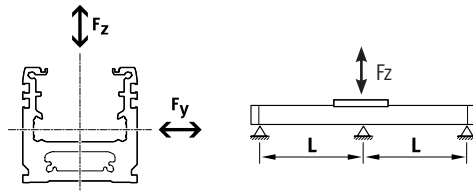
Max. permissible forces and torques for the overall axis (strength limits)

Size	60	80	120
Slide design		L	L
Max. force F_y , overall axis [N]	1945	3890	2800
Max. force F_z , overall axis [N]	2000	3600	5500
Max. torque M_x , overall axis [Nm]	41	85	106
Max. torque M_y , overall axis [Nm]	36	128	80
Max. torque M_z , overall axis [Nm]	36	133	79

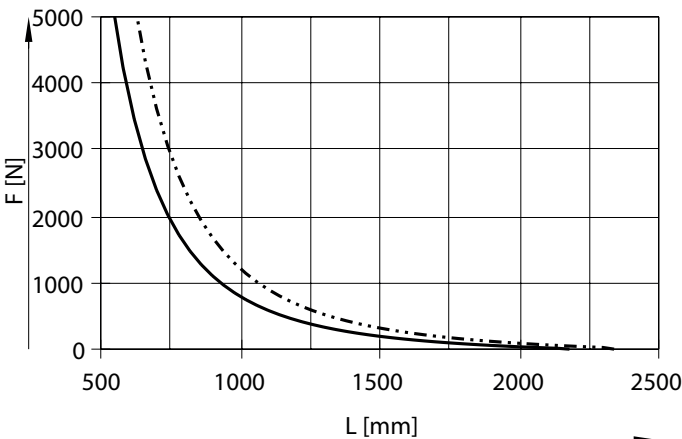
Maximum permissible support spacing L as a function of force F

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 $f = 0.5 \text{ mm}$.

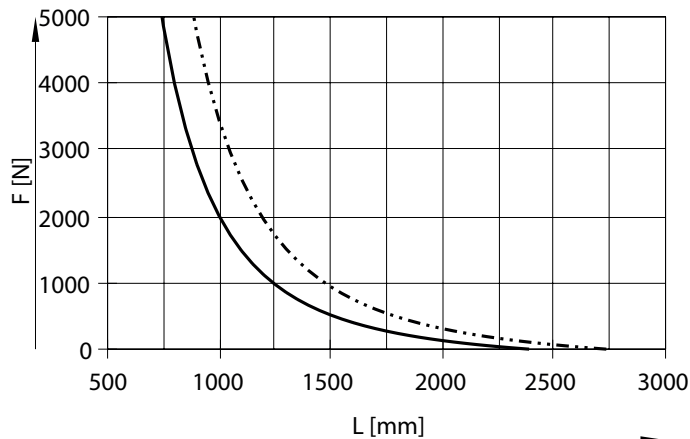


Size 60



— F_z
- - - F_y

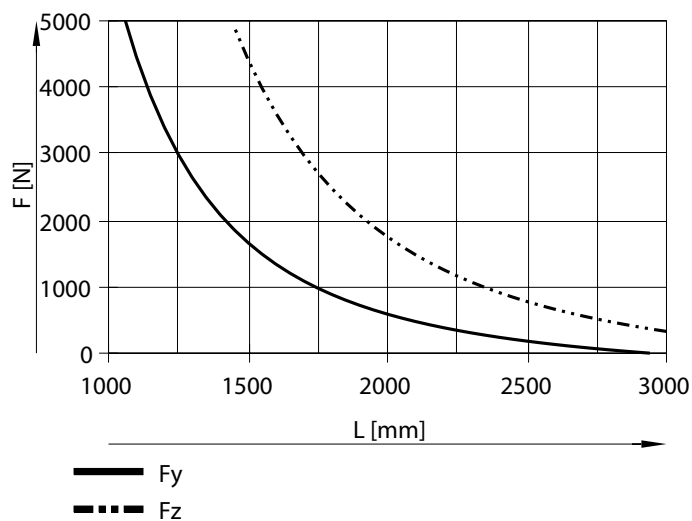
Size 80



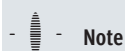
— F_y
- - - F_z

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 have a value of $f_v \leq 1$, based on the maximum permissible forces and torques for a service life of 5000 km.

This formula can be used to calculate a guide value.

The engineering software "Electric Motion Sizing" is available for more precise calculations

→ 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:

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

F1/M1 = Values occurring in the application

F2 = Permissible values at 5000 km from the graph "load as a function of support spacing"

M2 = Maximum permissible values (see table)

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

Size	60		80		120	
Slide design		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

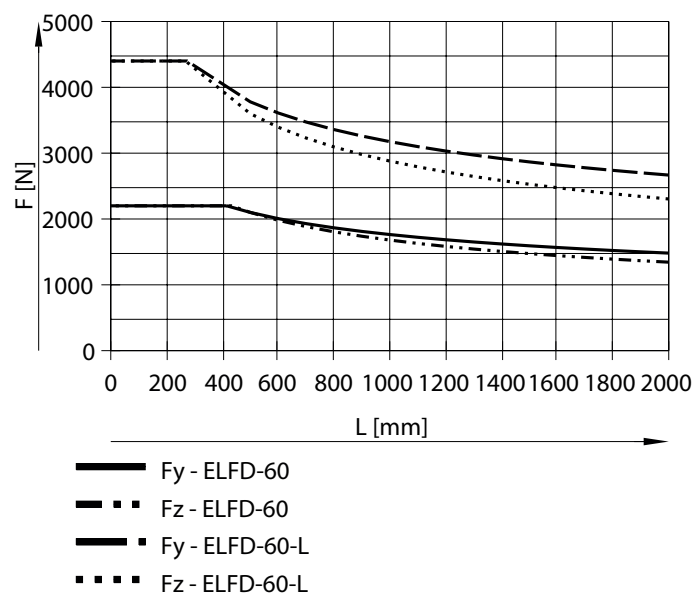
Datasheet

Permissible guide load as a function of the support spacing

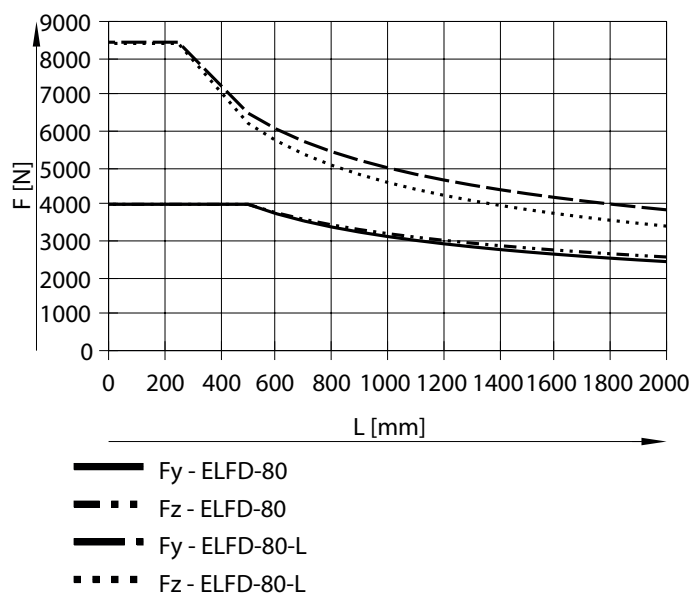
Depending on how firmly the axis is supported, the maximum permissible forces vary due to the design of the guide system.

If the axis is used as a cantilever or in yoke operation, the values for a support spacing of 2000 mm can be selected.

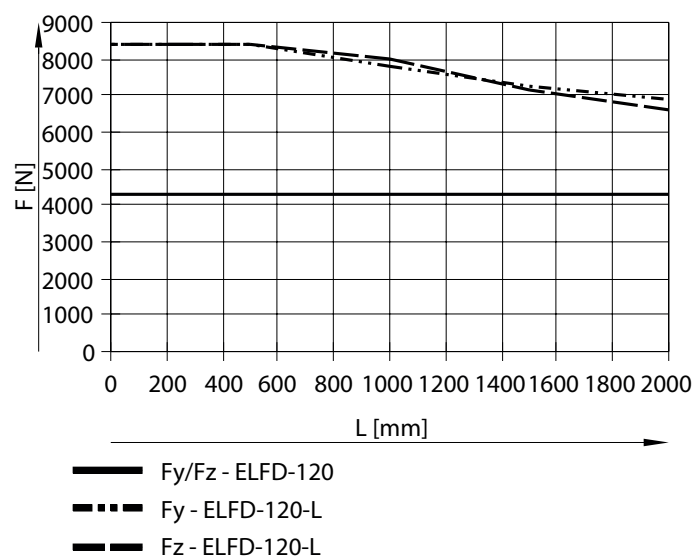
Size 60



Size 80



Size 120



Datasheet

3. Determine the service life

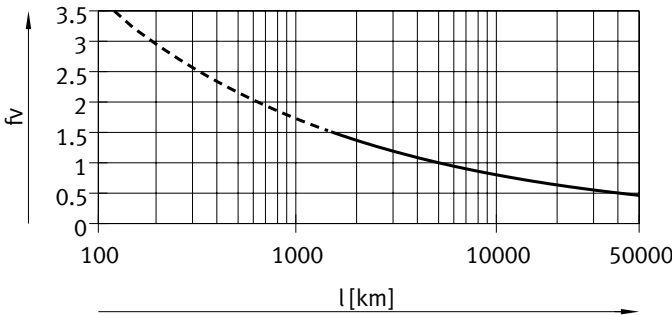
The service life of the guide depends on the load. To be able to provide an indication of the service life of the guide, the graph below plots the load comparison factor f_v against the service life.

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

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 8) gives a value of 1.3 for the load comparison factor f_v . According to the graph, the guide would have a service life of approx. 2500 km. Reducing the acceleration reduces the M_z 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 figure represents the workload of the guide.
(100% average guide comparison figure 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 torques are based on an expected service life of the guide system of 100 km to ISO or 50 km 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.

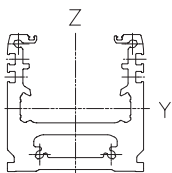
To make it easier to compare the guide capacity of guide axes ELFD with bearing guides, the table below lists the theoretically permissible forces and torques for a calculated service life of 100 km. This corresponds to the dynamic forces and torques to ISO.

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

Second moment of area



Size		60	80	120
I _y	[mm ⁴]	0.485x10 ⁶	1.213x10 ⁶	3.55x10 ⁶
I _z	[mm ⁴]	0.731x10 ⁶	2.052x10 ⁶	8.985x10 ⁶

Recommended deflection limit values

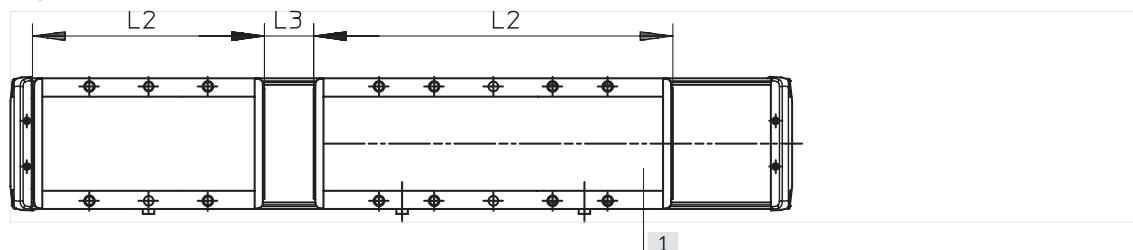
Adherence to the following limit values for deflection is recommended to ensure the continuing functionality of the axes. Greater deformation can result in increased friction, greater wear and reduced service life.

Size	Dynamic deflection (moving load)	Static deflection (stationary load)
60, 80, 120	0.05% of the axis length, max. 0.5 mm	0.1% of the axis length

Working stroke reduction

For axis ELFD 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

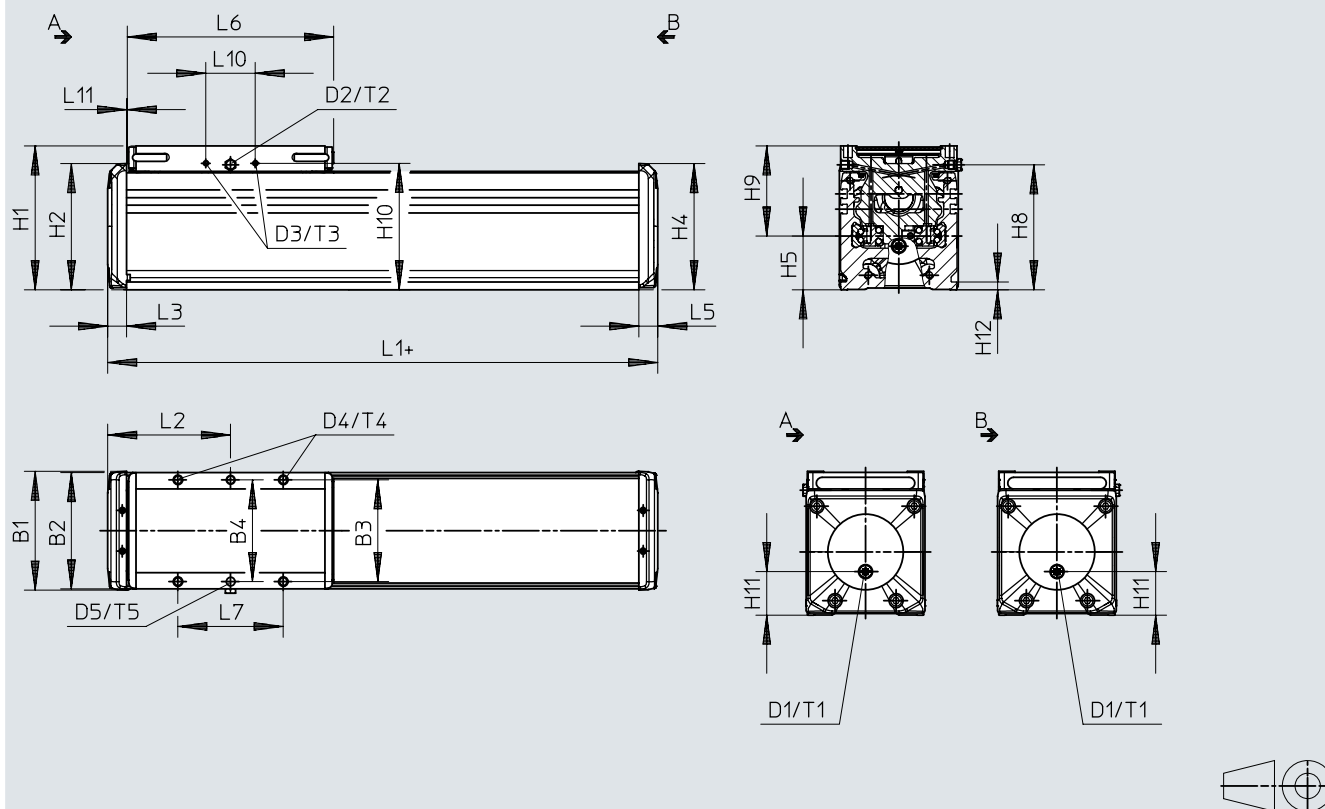
(500 mm – 50 mm – 118 mm)

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

+ = plus stroke length + 2x stroke reserve

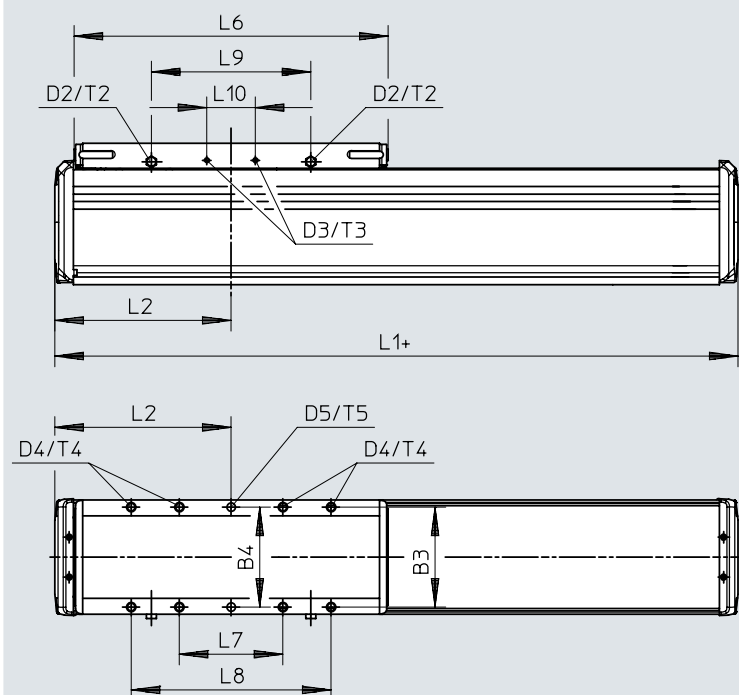
	B1	B2	B3	B4 ±0.03	D1	D2	D3	D4	D5 Ø H7	H1	H2
ELFD-60	62	60	52.5	52.5	G1/8	M6	M3	M5	5	82	69.9
ELFD-80	82	80	70	70	G1/8	M6	M3	M6	6	99	86.9
ELFD-120	123	120	107	107	G1/8	M6	M3	M6	6	126.5	115

	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

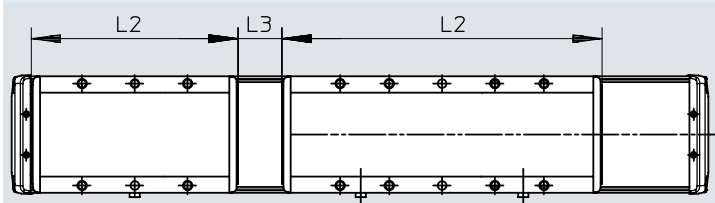
+ = plus stroke length + 2x stroke reserve

	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

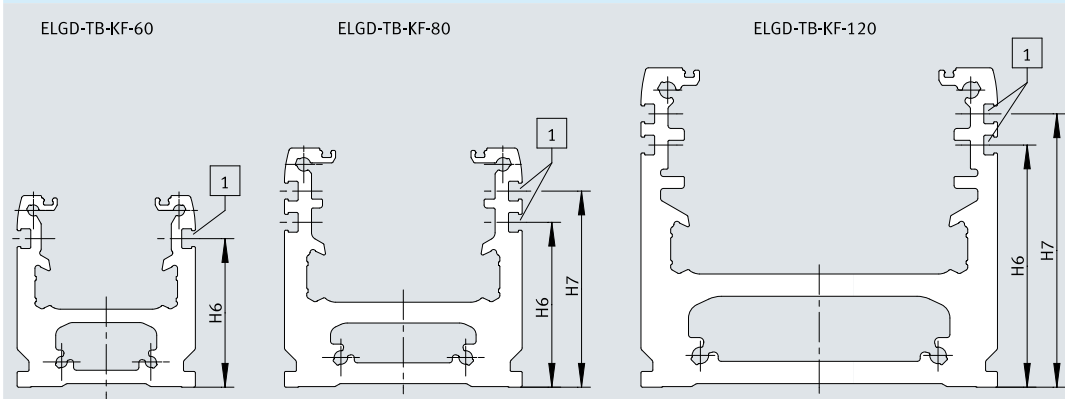
Datasheet

Dimensions – ELFD-...-ZL/-ZR (with additional slide) Download CAD data → www.festo.com



	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

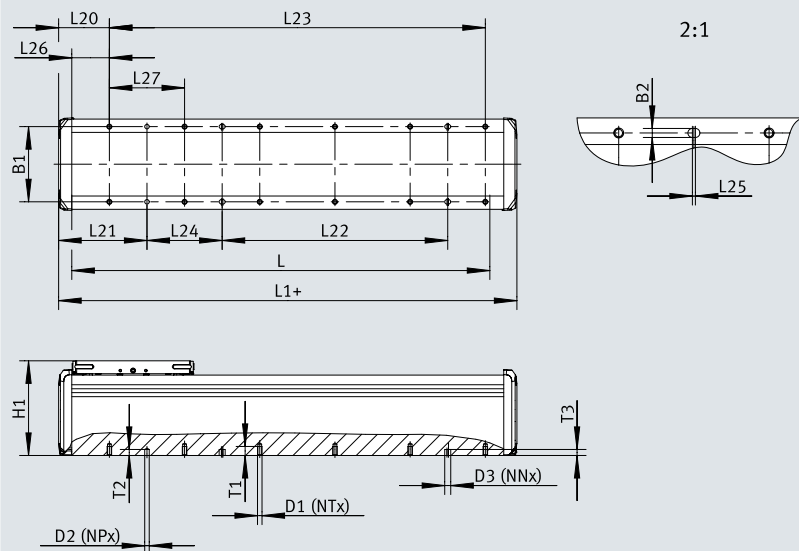


[1] Sensor slot for proximity switch

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

Datasheet

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

Download CAD data → www.festo.com

+ = plus stroke length + 2x stroke reserve

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

	B1	B2	D1	D2 Ø	H1	L (with zero stroke length)	L20	L21
		H7		H7				
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		M6		98.4	152.5	63	113
ELFD-80-...-L-M						230.5		
ELFD-120-...-M	100		M6		125.9	174.5	67.5	117.5
ELFD-120-...-L-M						275.5		

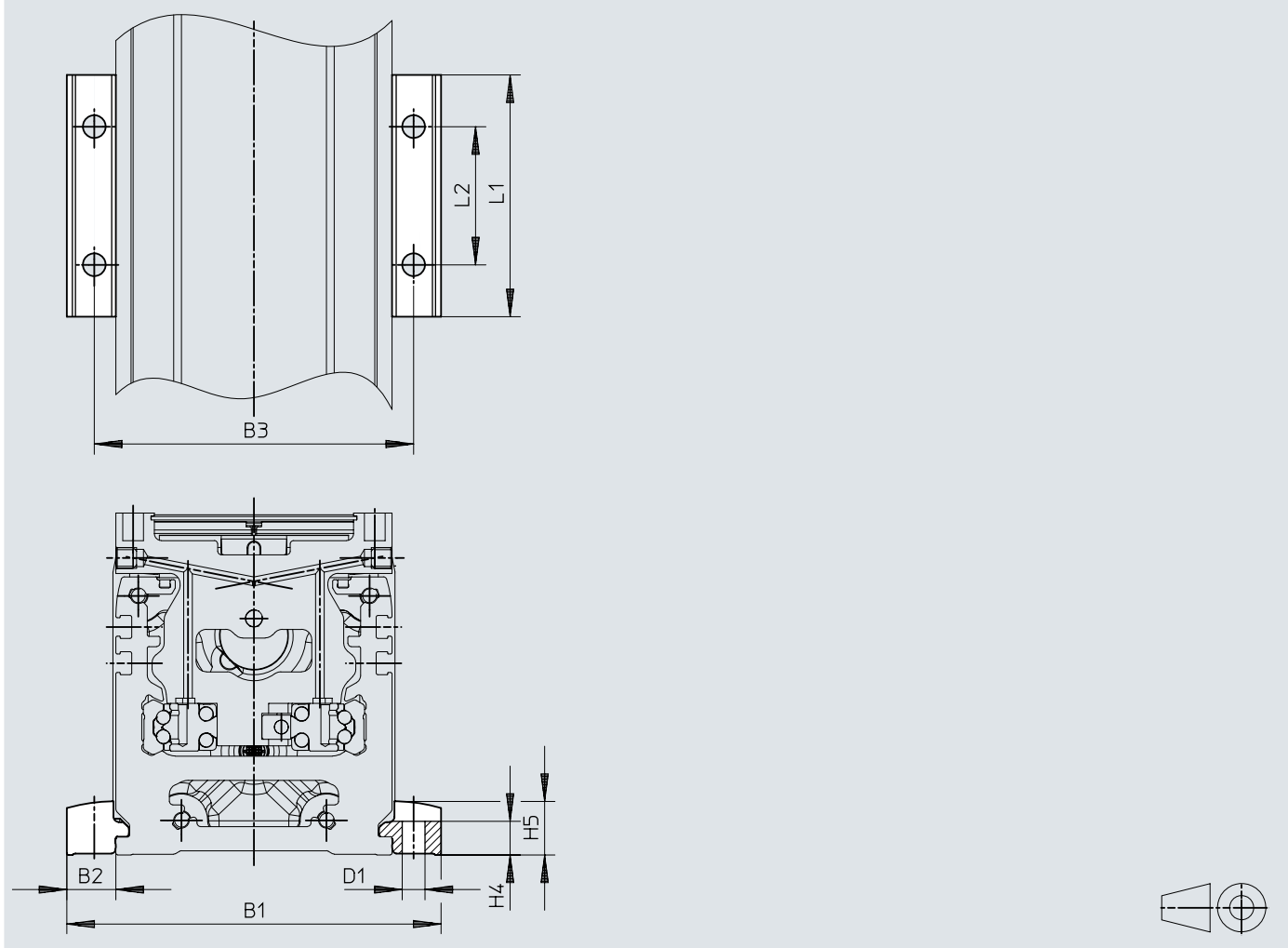
	L25	L26	L27	T1	T2	T3
ELFD-60-...-M	2	50	100	10.5	8	8
ELFD-60-...-L-M						
ELFD-80-...-M				12.5		
ELFD-80-...-L-M						
ELFD-120-...-M				12.5		
ELFD-120-...-L-M						

Datasheet

L	D1 ¹⁾		D2 ²⁾	D3 ³⁾		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

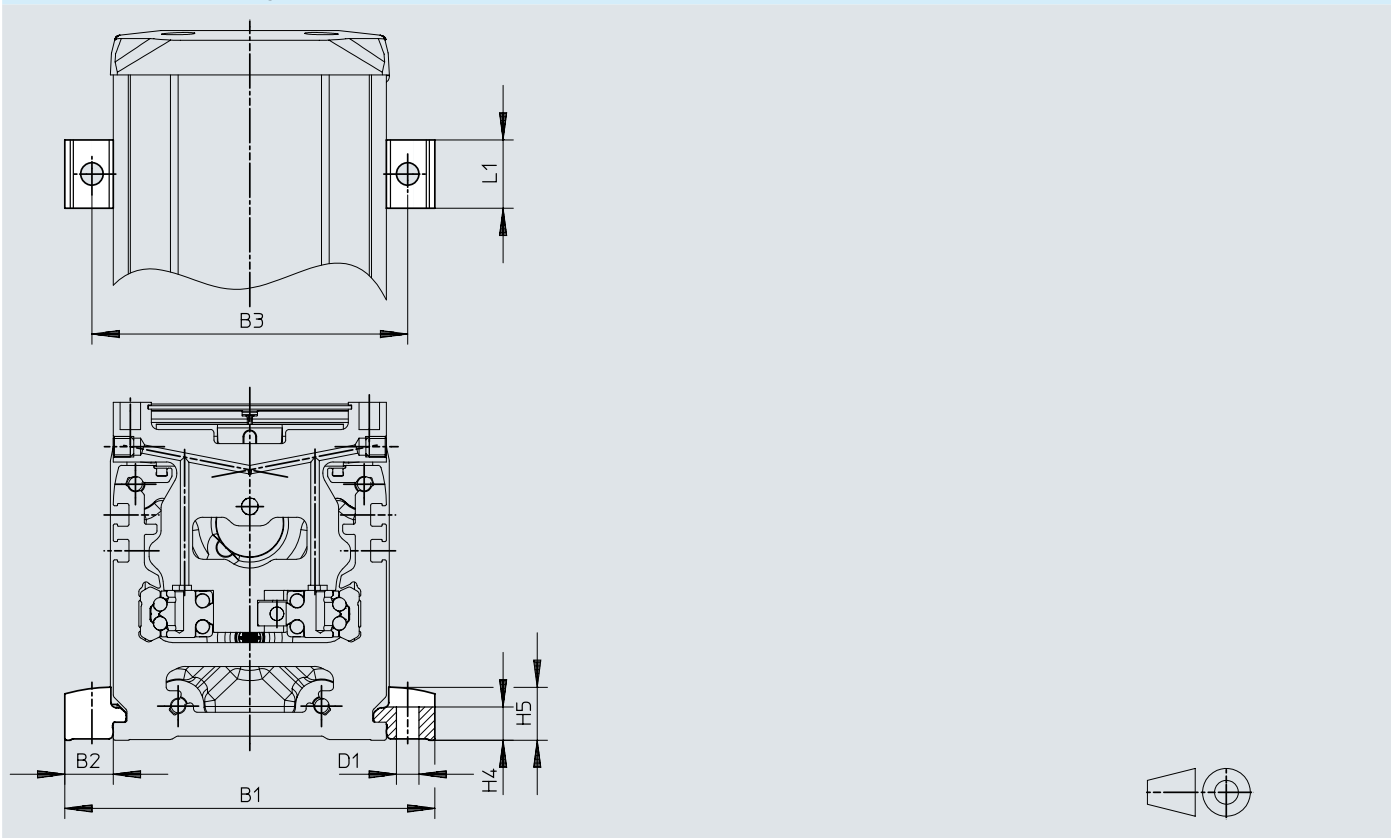
**Dimensions – Profile mounting EAHF-E24-60-P
(standard mounting)**
Download CAD data → www.festo.com

		B1	B2	B3	D1 Ø H13	H4 ±0.1	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-S

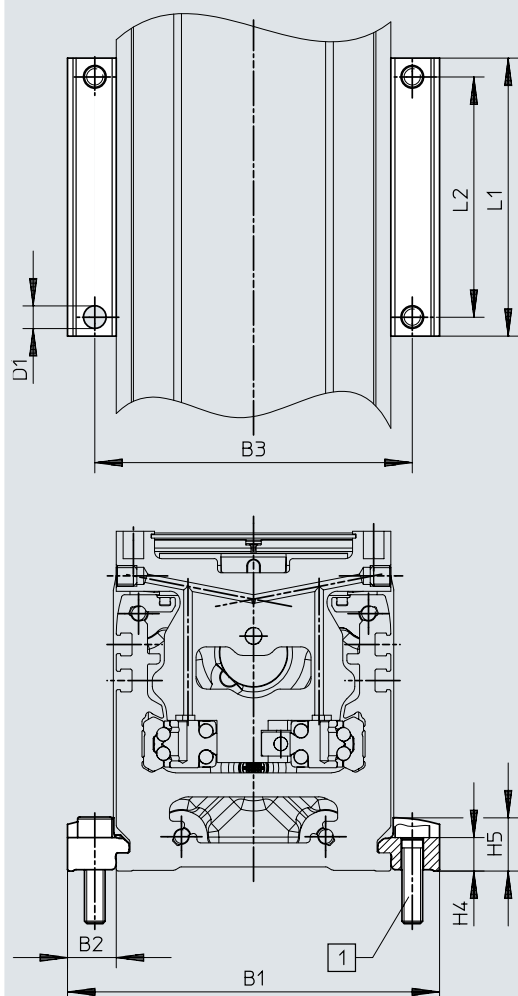
Download CAD data → www.festo.com



		B1	B2	B3	D1 Ø H13	H4 ±0.1	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-D

Download CAD data → www.festo.com

Note:

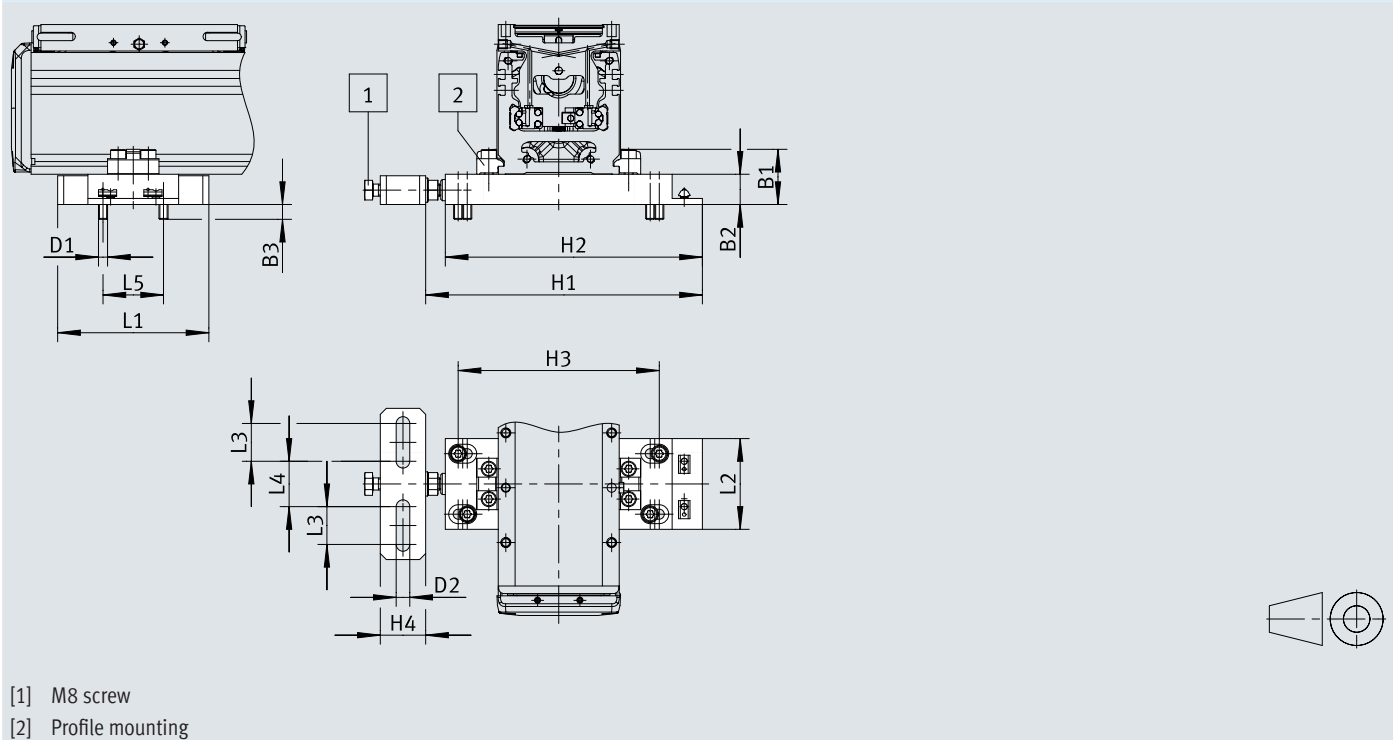
The profile mounting EAHF-E24-60-P-D... is designed for mounting axis ELFD on axis ELGD.



		B1	B2	B3	D1 Ø H13	H4 ±0.1	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 – Adjusting kit EADC-E16-... Download CAD data → www.festo.com



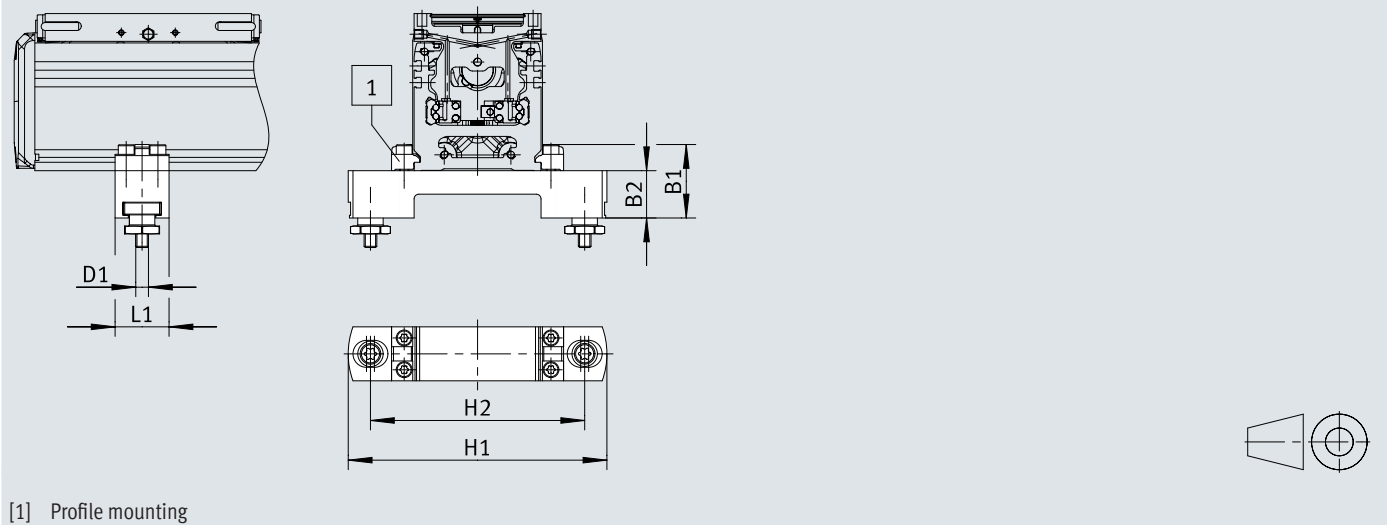
		B1	B2	B3	D1	D2	H1	H2
EADC-E16-60-E24	ELFD-60	36.5	20	9.8	M6	9	163	150
EADC-E16-80-E24	ELFD-80		20				183	170
EADC-E16-120-E24	ELFD-120		20				203	190

		H3		H4	L1	L2	L3	L4	L5
		min.	min.						
EADC-E16-60-E24	ELFD-60	101	113	30	100	60	25	30	40
EADC-E16-80-E24	ELFD-80	121	133						
EADC-E16-120-E24	ELFD-120	161	173						

Datasheet

Dimensions – Adjusting kit EADC-E15-...

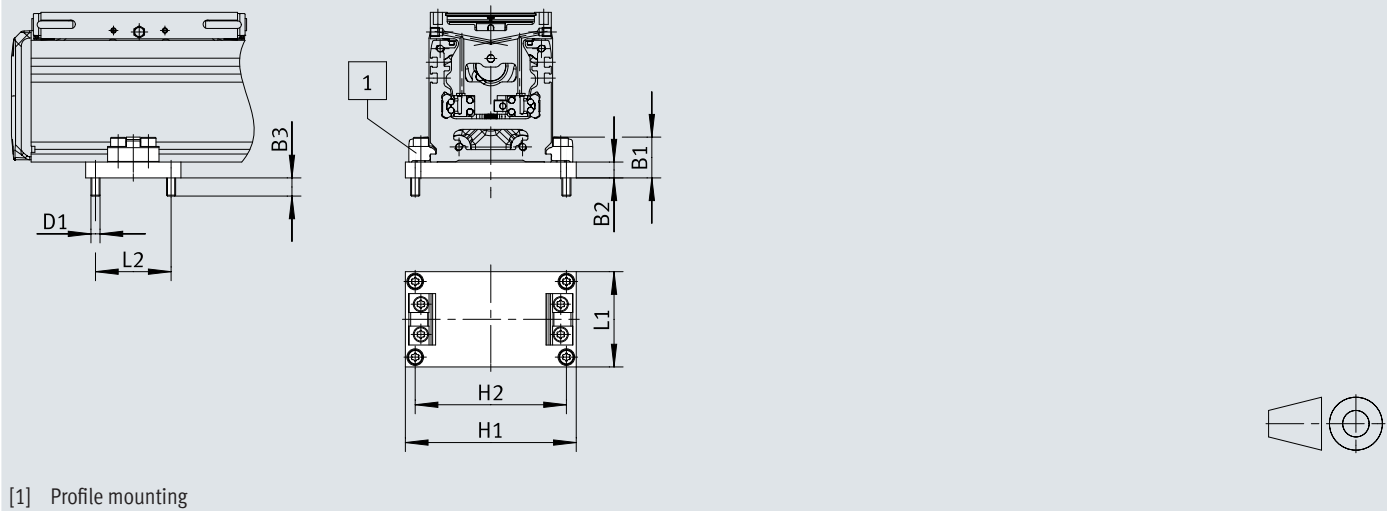
Download CAD data → www.festo.com



		B1	B2	D1	H1	H2		L1
						min.	max.	
EADC-E15-60-E24	ELFD-60	46.3	29.8	M8	143	110	120	34
EADC-E15-80-E24	ELFD-80				163	130	140	

Dimensions – Mounting kit EAHM-E15-K-...

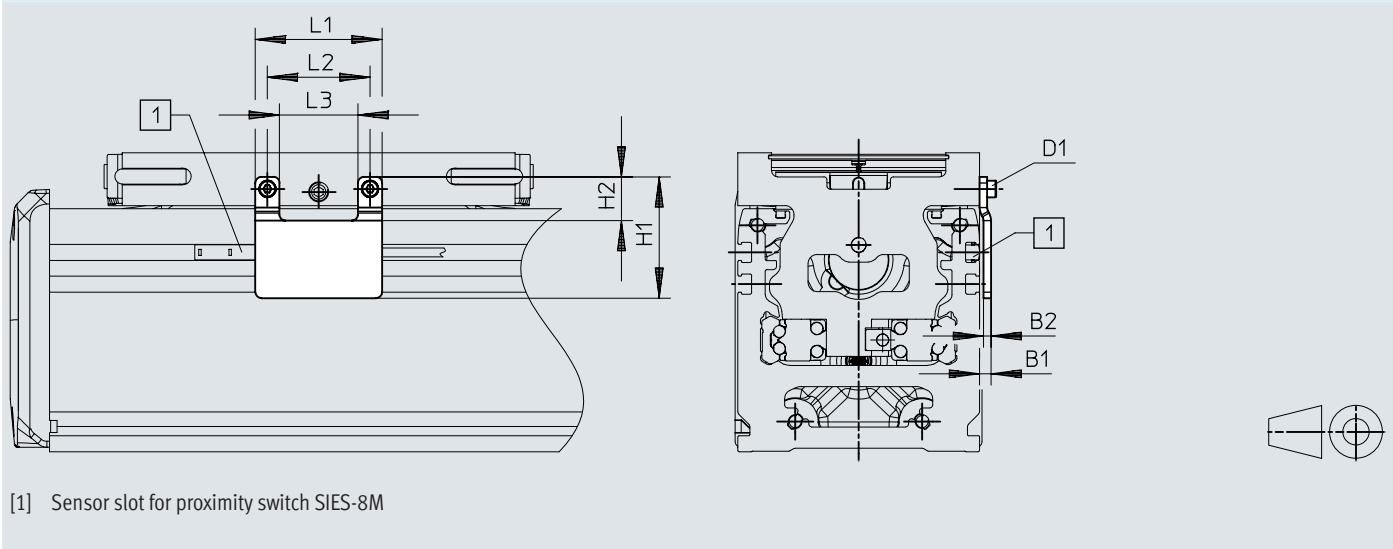
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		B1	B2	B3	D1	H1	H2	L1	L2
EAHM-E15-K-60-E24	ELFD-60	27	10.5	12	M6	93	80	63	50
EAHM-E15-K-80-E24	ELFD-80					113	100		

Datasheet

Dimensions – Switch lug EAPM-E24-60-SLS Download CAD data → www.festo.com

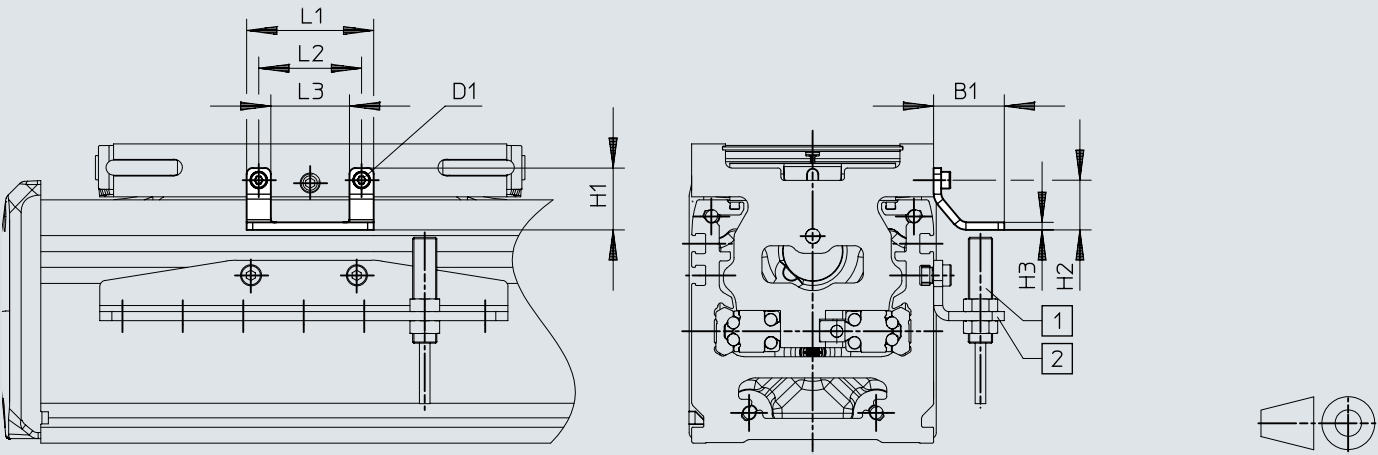


		B1	B2	D1	H1	H2	L1	L2	L3
EAPM-E24-60-SLS	ELFD-60	3.8	2.5	M3x8	40.2	14.5	42	34	26
	ELFD-80								
	ELFD-120								

Datasheet

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

Download CAD data → www.festo.com



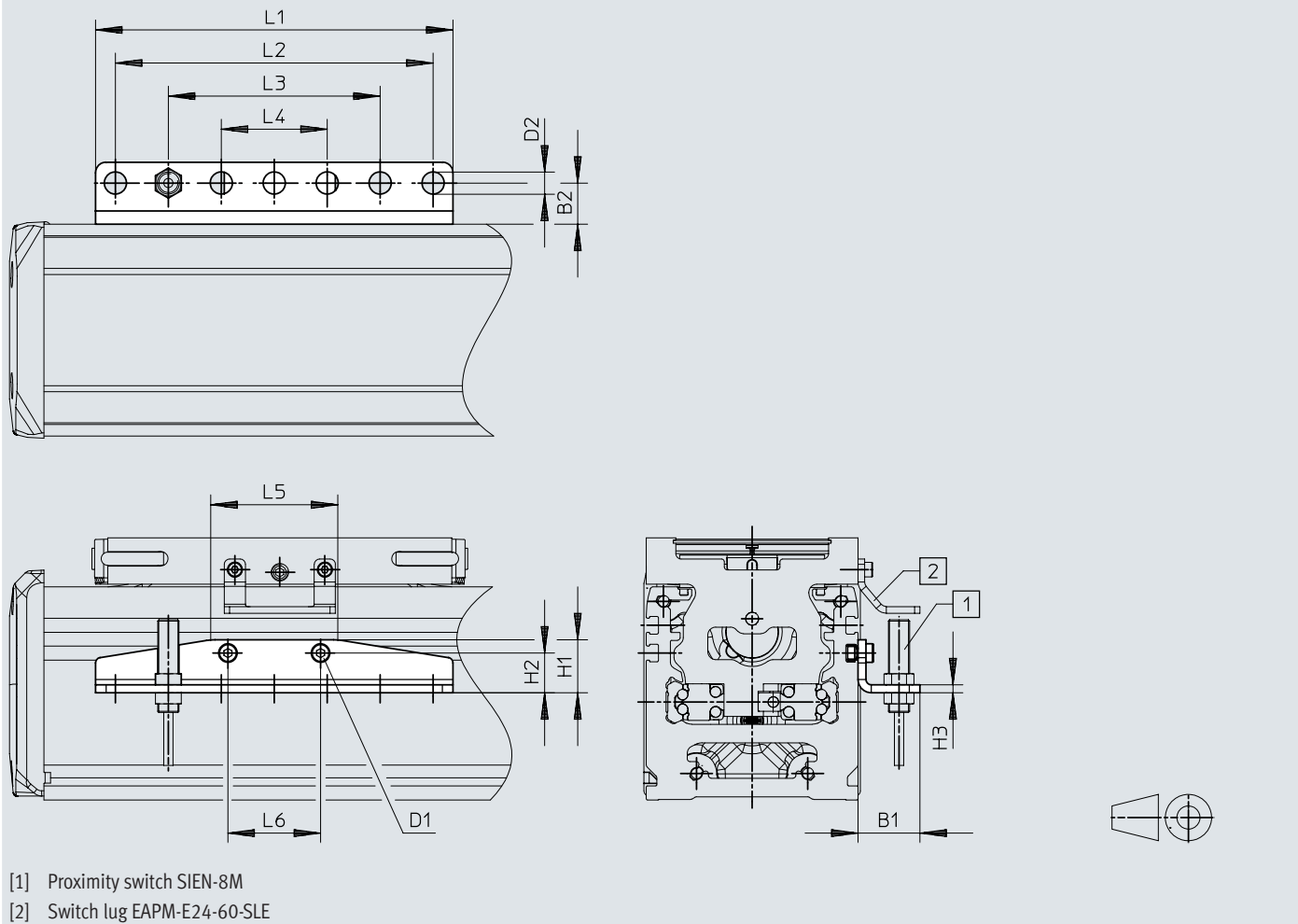
- [1] Proximity switch SIEN-M8
- [2] Sensor bracket EAPM-E24-60-SHE

		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

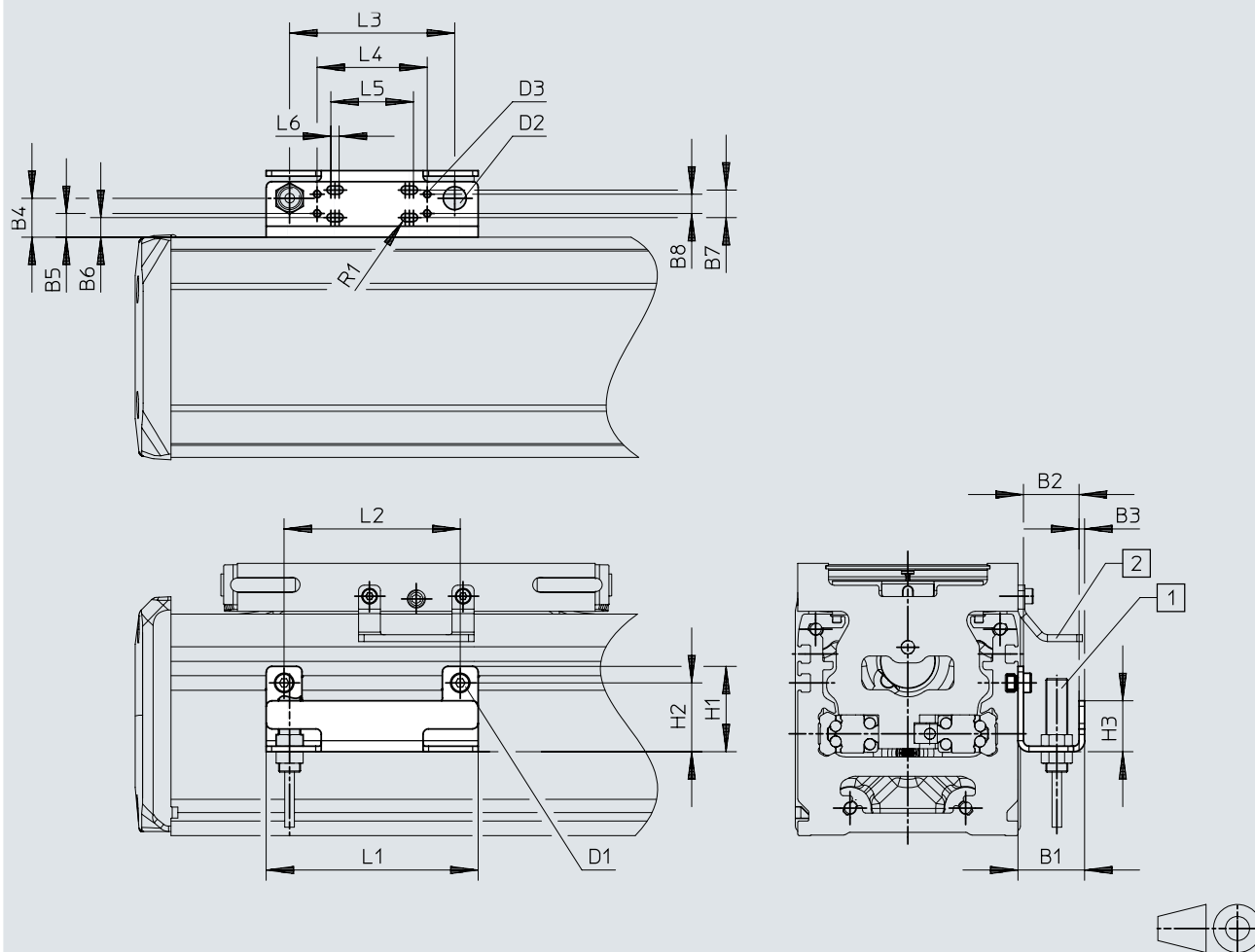


		B1	B2	D1	D2 Ø H13	H1 ±0.3	H2	H3
EAPM-E24-60-SHE	ELFD-60	23.4	15.5	M4x6	8.4	20	15	3
	ELFD-80							
	ELFD-120							

		L1 ±0.2	L2	L3	L4	L5	L6
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

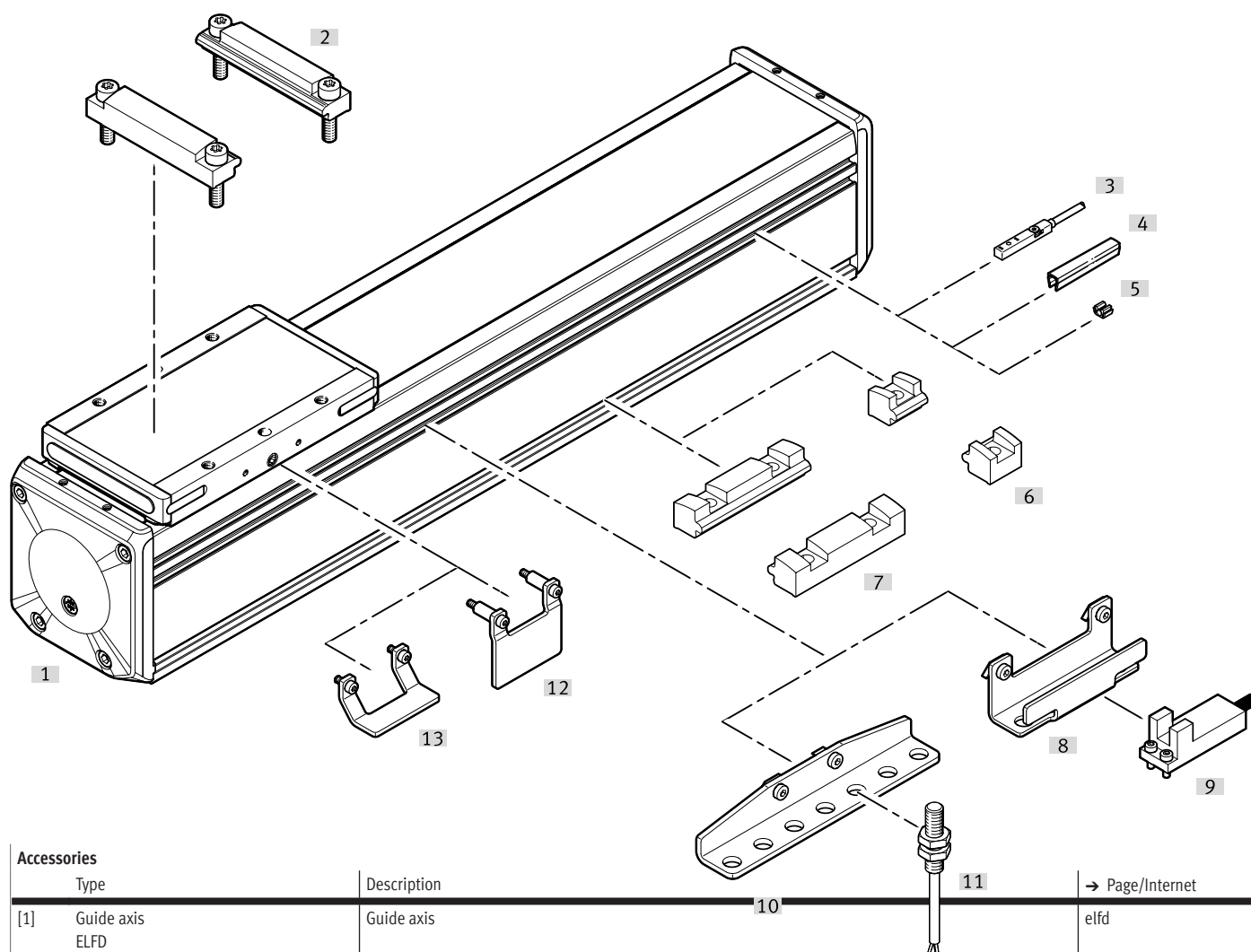
- [1] Inductive sensor (Omron)
 [2] Switch lug EAPM-E24-60-SLE

		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 Ø	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

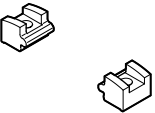
Ordering data – Modular product system				More information → elfd
	Size	Stroke [mm]	Part no.	Type
	60	50 ... 8500	8182487	ELFD-KF-60-...
	80	50 ... 8500	8182488	ELFD-KF-80-...
	120	50 ... 8500	8182489	ELFD-KF-120-...

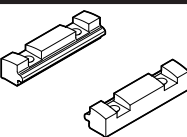
Peripherals overview

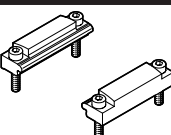


Accessories		Description	→ Page/Internet
Type			
[1]	Guide axis ELFD	Guide axis	elfd
[2]	Profile mounting EAHF-E24-...D...	For axis/axis mounting with adapter plate	28
[3]	Proximity switch, T-slot SIES-8M	Inductive proximity switch, for T-slot	30
[4]	Slot cover ABPS	For protection against contamination	30
[5]	Clip SMBK	For mounting the proximity switch cable in the slot	30
[6]	Profile mounting EAHF-E24-...S	For mounting the axis on the side of the profile	28
[7]	Profile mounting EAHF-E24-...	For mounting the axis on the side of the profile	28
[8]	Sensor bracket EAPM-E24-SHO	For mounting third-party sensors on the axis	29
[9]	Sensor OMRON	Third-party sensor OMRON, EE-SX674 series	–
[10]	Adjusting kit EADC-E15	Height-adjustable. Can be used to easily compensate for any unevenness in the bearing surface	28
[11]	Sensor bracket EAPM-E24-SHE	For mounting the inductive proximity switches SIEN-M8 (round design) on the axis	29
[12]	Proximity switch, M8 SIEN-M8	Inductive proximity switch, round design	30
[13]	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	29
[14]	Switch lug EAPM-E24-SLE	For sensing the slide position using inductive proximity switch SIEN-M8 (round design) and sensor bracket EAPM-E24-SHE	29
[15]	Mounting kit EAHM-E15-K	For mounting the axis on the side of the profile	28

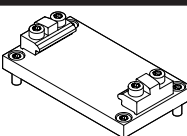
Accessories

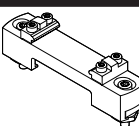
Profile mounting EAHF-E24-...-P-S						
	Description	Suitable for the production of Li-ion batteries	Material	Product weight	Part no.	Type
	For size 60, 80, 120, WD-100, WD-120	F1a	Anodised wrought aluminium alloy	18 g	8197128	EAHF-E24-60-P-S

Profile mounting EAHF-E24-...-P						
	Description	Suitable for the production of Li-ion batteries	Material	Product weight	Part no.	Type
	For size 60, 80, 120, WD-100, WD-120	F1a	Anodised wrought aluminium alloy	71 g	8197132	EAHF-E24-60-P

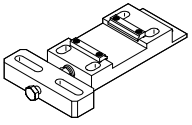
Profile mounting EAHF-E24-...-P-D...						
	Description	Suitable for the production of Li-ion batteries	Material	Product weight	Part no.	Type
	ELGD-60 on ELGD-60-L ¹⁾	F1a	Anodised wrought aluminium alloy	87 g	8197131	EAHF-E24-60-P-D5
	ELGD-60 on ELGD-80			119 g	8197129	EAHF-E24-60-P-D4
	ELGD-60 on ELGD-WD-100-L ¹⁾			133 g	8197130	EAHF-E24-60-P-D6
	ELGD-80 on ELGD-WD-100-L			133 g	8197130	EAHF-E24-60-P-D6
	ELGD-80 on ELGD-120-L			165 g	8229954	EAHF-E24-60-P-D7
	ELGD-WD-100-L on ELGD-120-L			165 g	8229954	EAHF-E24-60-P-D7

1) With these combinations, the axis is mounted off-centre on the slide (see dimension L13 on the dimensional drawing with long slide).

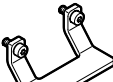
Mounting kit EAHM-E15-K					
	Description	Adapter plate material	Product weight	Part no.	Type
	For size 60	Anodised aluminium	242 g	8234422	EAHM-E15-K-60-E24
	For size 80	Anodised aluminium	277 g	8234423	EAHM-E15-K-80-E24

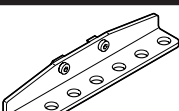
Adjusting kit EADC-E15					
	Description	Adapter plate material	Product weight	Part no.	Type
	For size 60	Anodised wrought aluminium alloy	377 g	8234417	EADC-E15-60-E24
	For size 80	Anodised wrought aluminium alloy	466 g	8234418	EADC-E15-80-E24

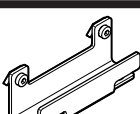
Accessories

Adjusting kit EADC-E16					
	Description	Adapter plate material	Product weight	Part no.	Type
	For size 60	Anodised wrought aluminium alloy	650 g	8234412	EADC-E16-60-E24
	For size 80	Anodised wrought aluminium alloy	715 g	8234413	EADC-E16-80-E24
	For size 120	Anodised wrought aluminium alloy	845 g	8234414	EADC-E16-120-E24

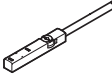
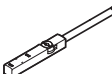
Switch lug EAPM-E24-...-SLS						
	Description	Suitable for the pro- duction of Li-ion batteries	Material	Product weight	Part no.	Type
	For size 60, 80, 120	F1a	Steel	32 g	8197117	EAPM-E24-60-SLS

Switch lug EAPM-E24-...-SLE						
	Description	Suitable for the pro- duction of Li-ion batteries	Material	Product weight	Part no.	Type
	For size 60, 80, 120	F1a	Steel	20 g	8197116	EAPM-E24-60-SLE

Sensor bracket EAPM-E24-...-SHE						
	Description	Suitable for the pro- duction of Li-ion batteries	Material	Product weight	Part no.	Type
	For size 60, 80, 120	F1a	Steel	103 g	8197123	EAPM-E24-60-SHE

Sensor bracket EAPM-E24-...-SHO						
	Description	Suitable for the pro- duction of Li-ion batteries	Material	Product weight	Part no.	Type
	For size 60, 80, 120	F1a	Steel	67 g	8197121	EAPM-E24-60-SHO

Accessories

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

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

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

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