

Linear drives SLG, flat design

FESTO



Linear drives SLG, flat design

Features

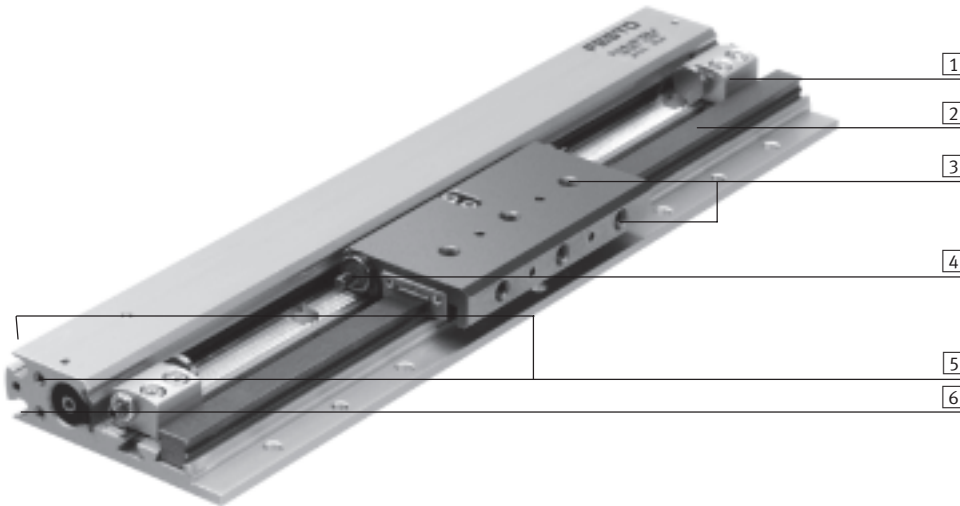
FESTO

General information

- Piston Ø 8, 12 and 18
- Stroke lengths of 100 ... 900 mm
- Two cushioning types selectable:
 - Elastic cushioning
 - Shock absorbers
- Direct mounting via centering holes
- Extremely flat design
- Built-in precision guide
- Slide with polished surface
- High load capacity
- Adjustable end stops
- Versatile supply port options
- Suitable for multiple-axis applications with other mini slides

The technology in detail

→ 5

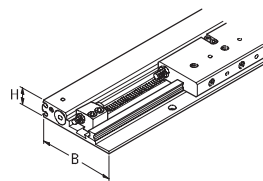


- | | | | |
|---|--|---|--|
| <p>1 End stop</p> <p>Finely-adjustable end stops over entire stroke range</p> | <p>3 Slide</p> <p>Interface for attachments. Highly adaptable, thanks to wide choice of mounting and attachment options</p> | <p>4 Cushioning</p> <p>With rubber buffers or with shock absorbers. The cushioning elements are inserted into the slide and fixed.</p> | <p>5 Supply port</p> <p>Possible on three sides</p> |
| <p>2 Guide rail</p> <p>Highly accurate, rigid precision guide unit: stainless steel roller track pressed into aluminum</p> | | | <p>6 Slot</p> <p>for integrateable proximity sensors SME-/SMT-10 fixed.</p> |

Design

The flat linear drive SLG

The height H remains the same even if the intermediate position module is used.



Piston Ø	Width (B)	x Height (H)
8 mm	53.5	x 15 mm
12 mm	64.5	x 18.5 mm
18 mm	85.5	x 25.5 mm

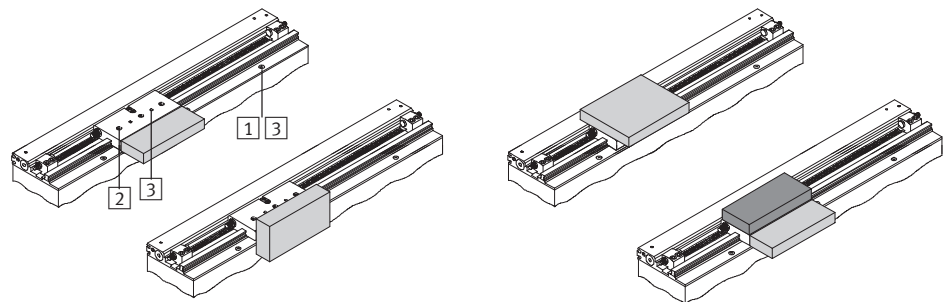
Mounting and assembly options

Drive

- 1** Through-holes
- 3** Locating hole for centering pin ZBS

Slide

- 2** Threaded holes
- 3** Locating hole for centering pin ZBS



Linear drives SLG, flat design

Features

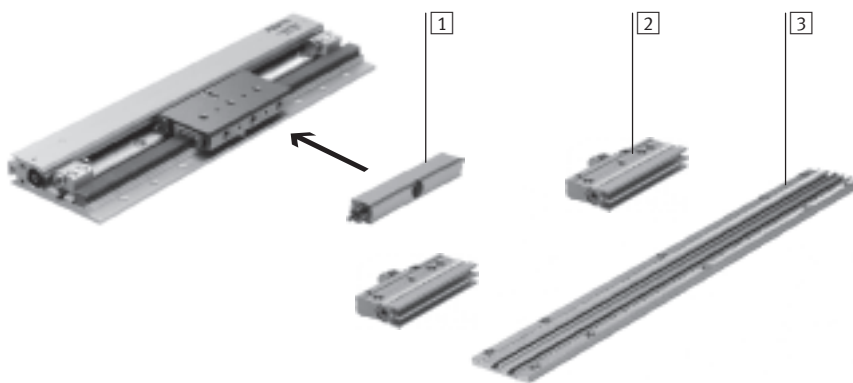
FESTO

Intermediate positions – simple and inexpensive

→ 16

- The intermediate position module can be used for advancing to one or more intermediate positions
- It is mounted parallel to the linear drive SLG via an additional mounting rail. This means that it can also be easily retrofitted.
- Fine adjustment of the intermediate position is effected via a stop screw with lock nut
- With two modules the same position can be approached from either direction
- The intermediate positions can be freely selected across the entire stroke range (observe minimum distances)
- The module's symmetry means that it can advance to its right or left once mounted
- It can be activated and sensed before the movement starts
- Integratable proximity switches in the module housing mean that the intermediate position (activated or initial position) can be sensed contactlessly
- Up to 4 modules can be ordered via the SLG modular product system
- The slide must be retracted once the intermediate position is reached. The stop on the module can then swivel back into its initial position

In combination with linear drive SLG



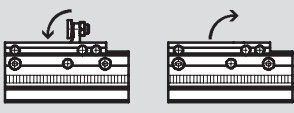
- 1 Shock absorber retainer SLG-D**
The retainer accepts rubber buffers or shock absorbers and is attached to the slide of the SLG. The use of shock absorber YSRG (Accessories → 25) is recommended to ensure accurate positioning of stops and in the case of vertical assembly positions.

- 2 Intermediate position module SLG-Z**
The stop with cushioning screw is retracted and extended by means of a 90° swivel motion based on a double-acting rotary drive (rack and pinion principle). The module is fastened to the mounting rail using screws and slot nuts.

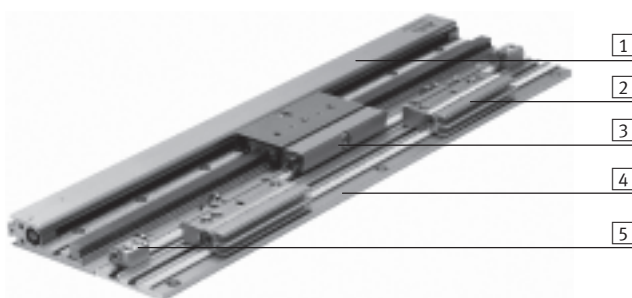
- 3 Mounting rail SLG-S**
The rail is used for mounting the intermediate position modules. It can also accept the end stops of the linear drive SLG. The gear teeth on the rail and module permit rough pre-adjustment with respect to the drive part of the SLG.

 **Note**

The intermediate position module can also be used independently of the linear drive SLG. It is simply mounted on any even surface using mounting screws and locating pins and can then be used universally as an autonomous intermediate position module in numerous applications.



Completely assembled with two intermediate positions



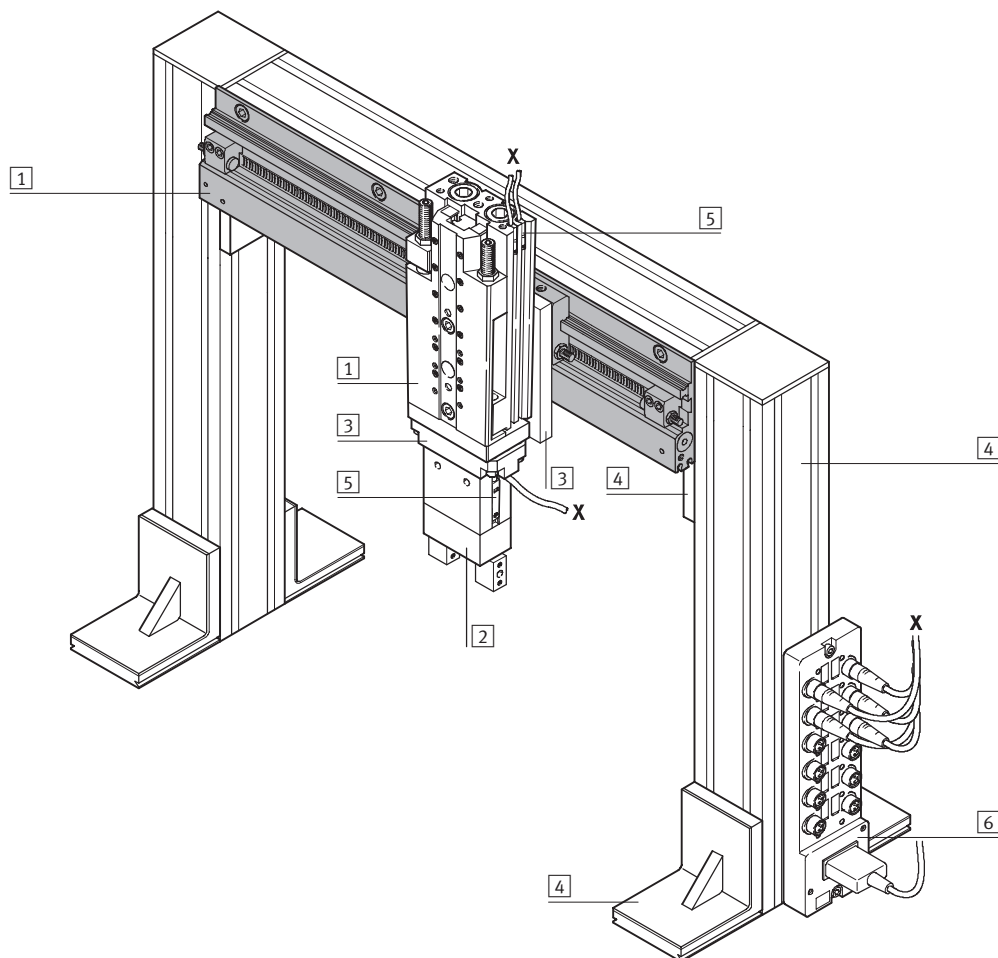
- 1 Linear drive SLG**
2 Intermediate position module
3 Shock absorber retainer
4 Mounting rail
5 End stop

Linear drives SLG, flat design

Features

FESTO

System product for handling and assembly technology

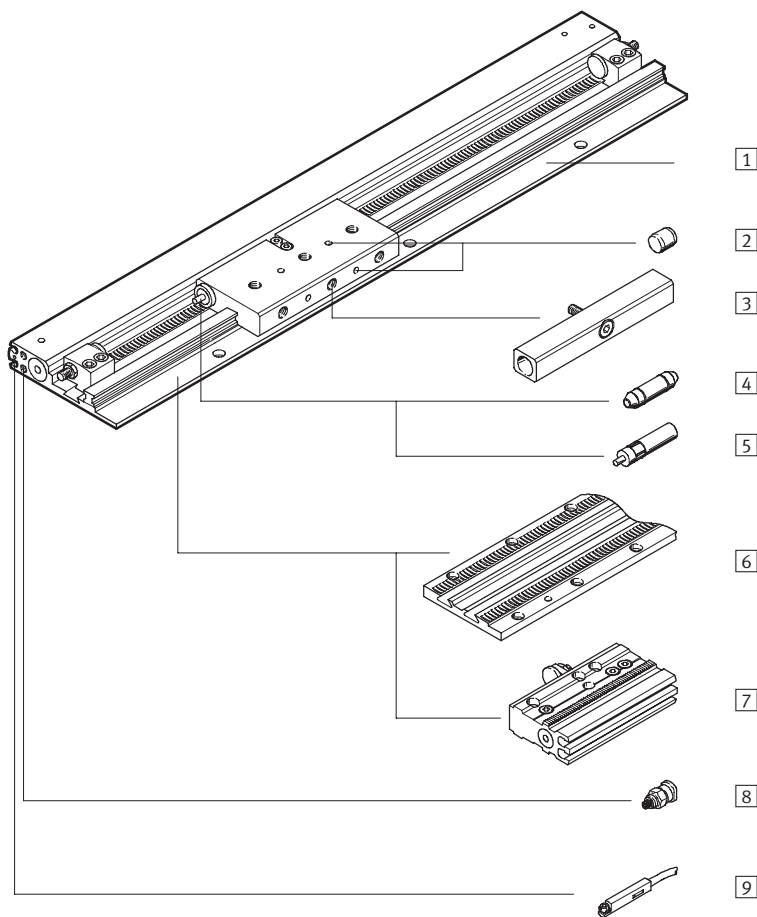


System elements and accessories		
Type	Brief description	→ Page/Internet
1 Drives	Diverse possible combinations in handling and assembly technology	drive
2 Grippers	Diverse variation options in handling and assembly technology	gripper
3 Adapters	For drive-drive and drive-gripper connections	adapter kit
4 Basic components	Profiles and profile connections	basic component
5 Proximity sensors	For position sensing	proximity sensor
6 Multi-pin plug distributor	For bundling individual cables to form a multi-pin cable	multi-pin plug distributor

Linear drives SLG, flat design

Peripherals overview

FESTO



Variants and accessories			
Type	Brief description		→ Page/Internet
1 Linear drive SLG	Drive without accessories		7
2 Centering pin ZBS	For centering loads and attachments on the slide		25
3 Shock absorber retainer SLG-D	For fastening the rubber buffers or shock absorbers in combination with the intermediate position		23
4 Rubber buffer SLG	Non-adjustable, elastic cushioning. Used only at low speeds		25
5 Shock absorber YSRG	Self-adjusting hydraulic shock absorber with return spring and linear cushioning characteristic		25
6 Mounting rail SLG-S	For fastening the intermediate position modules and end stops		24
7 Intermediate position module SLG-Z	Fixed stop for the intermediate position		23
8 One-way flow control valve GRLA	The small distance between the supply ports means that only certain one-way flow control valves can be used		26
9 Proximity sensors SME-/SMT-10	The proximity switches are fitted in the profile slot. The switches therefore do not project		26

Linear drives SLG, flat design

Type codes

FESTO

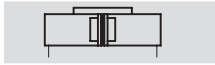
		SLG	–	12	–	500	–	YSR	–	A	–	Z2
Type												
SLG	Linear drive											
Piston Ø [mm]												
Stroke [mm]												
Cushioning												
P	Elastic cushioning, non-adjustable											
YSR	Linear shock absorber, self-adjusting											
Position sensing												
A	Position sensing											
Intermediate position												
Z1	1 intermediate position											
Z2	2 intermediate positions											
Z3	3 intermediate positions											
Z4	4 intermediate positions											

Linear drives SLG, flat design

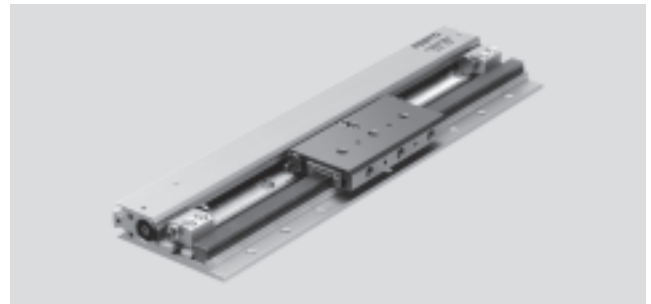
Technical data

FESTO

Function



- $\varnothing$ - Diameter
8 ... 18 mm
- I - Stroke length
100 ... 900 mm



General technical data			
Piston $\varnothing$	8	12	18
Stroke ¹⁾ [mm]	100 ... 500	100 ... 700	100 ... 900
Pneumatic connection	M3		M5
Mode of operation	Double-acting		
Operating medium	Filtered compressed air, lubricated or unlubricated		
Constructional design	Rodless drive		
Cushioning	Flexible cushioning rings/plates at both ends		
→ 10	Self-adjusting at both ends		
Position sensing	For proximity sensing		
Type of mounting	Direct mounting		
Mounting position	Any		
Driver principle	Slotted cylinder, mechanically coupled		
Guide	Guide rail with slide		
Max. speed [m/s]	1		1.5

1) Intermediate strokes are infinitely adjustable with stops.

Operating and environmental conditions			
Piston $\varnothing$	8	12	18
Operating pressure [bar]	2.5 ... 8	2 ... 8	1 ... 8
Ambient temperature ¹⁾ [°C]	-10 ... +60		

1) Note operating range of proximity switches.

Forces [N]			
Piston $\varnothing$	8	12	18
Theoretical force at 6 bar	30	68	153

Linear drives SLG, flat design

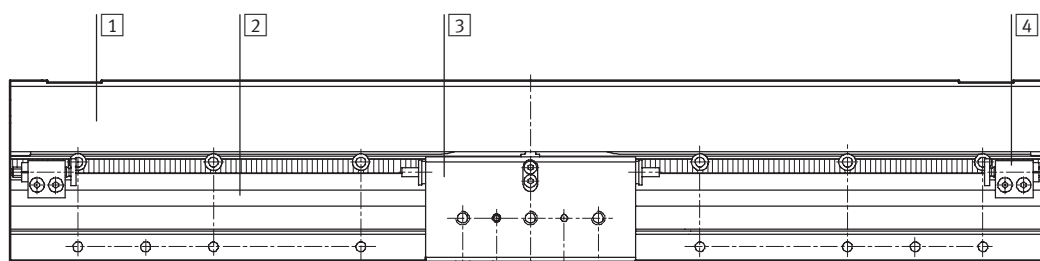
Technical data

FESTO

Weights [g]			
Piston Ø	8	12	18
Basic weight per 0 mm stroke with P cushioning	215	410	965
Basic weight per 0 mm stroke with YSR cushioning	225	420	995
Additional weight per 10mm stroke	11.5	17.5	29.5
Moving load with P cushioning	80	160	440
Moving load with YSR cushioning	90	170	470

Materials

Sectional view



Linear drives		
1	Profile barrel	Anodized aluminum
2	Guide	High-alloy steel
3	Slide	High-alloy steel
4	Stop sleeve	Anodized aluminum
–	Seals	Polyurethane
Material note		Free of copper, PTFE and silicone

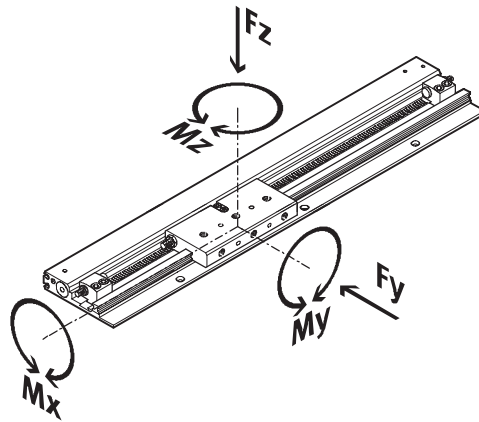
Linear drives SLG, flat design

Technical data

FESTO

Characteristic load values

The forces and torques specified refer to the centre of the guide rail.



If the drive is subjected to several of the indicated forces and torques simultaneously, the following equations must be satisfied in addition to the indicated maximum loads:

$$\frac{F_y}{F_{y_{\max.}}} + \frac{F_z}{F_{z_{\max.}}} + \frac{M_x}{M_{x_{\max.}}} + \frac{M_y}{M_{y_{\max.}}} + \frac{M_z}{M_{z_{\max.}}} \leq 1$$

Permissible forces [N] and torques [Nm]				
Piston Ø		8	12	18
F _y _{max.}	[N]	255	565	930
F _z _{max.}	[N]	255	565	930
M _x _{max.}	[Nm]	1	3	7
M _y _{max.}	[Nm]	3.5	9	23
M _z _{max.}	[Nm]	3.5	9	23

Torsional backlash [°] at the respective torques				
Piston Ø		8	12	18
at M _x _{max.}		±0.03	±0.04	±0.05
at M _y _{max.}		±0.005	±0.007	±0.007
at M _z _{max.}		±0.005	±0.007	±0.007

-  - Note
Sizing software
ProDrive
→ www.festo.com

Linear drives SLG, flat design

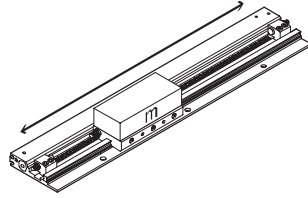
Technical data

FESTO

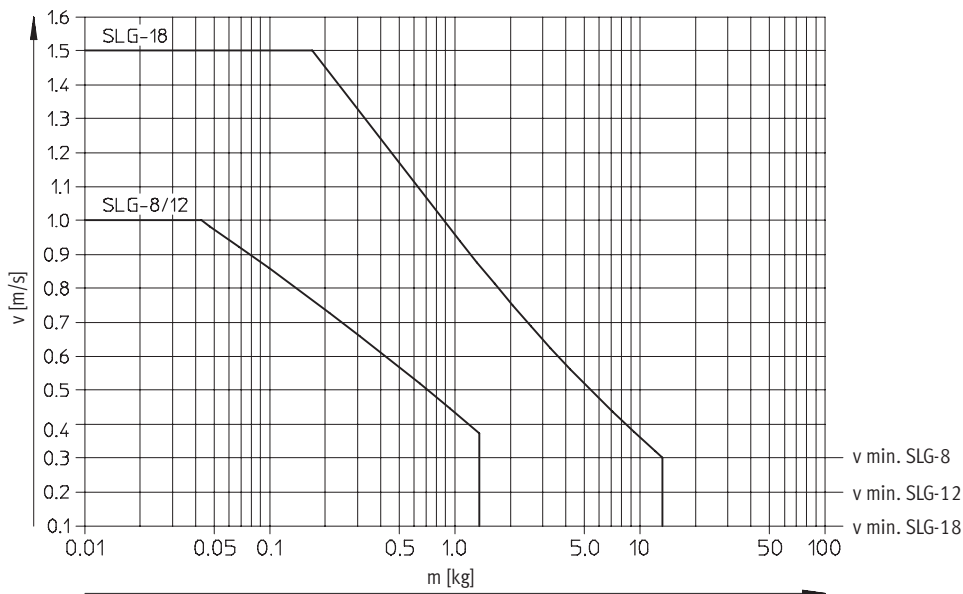
Maximum permissible piston speed v as a function of useful load m when the unit is operated horizontally

As a function of operating pressure and end-position cushioning system

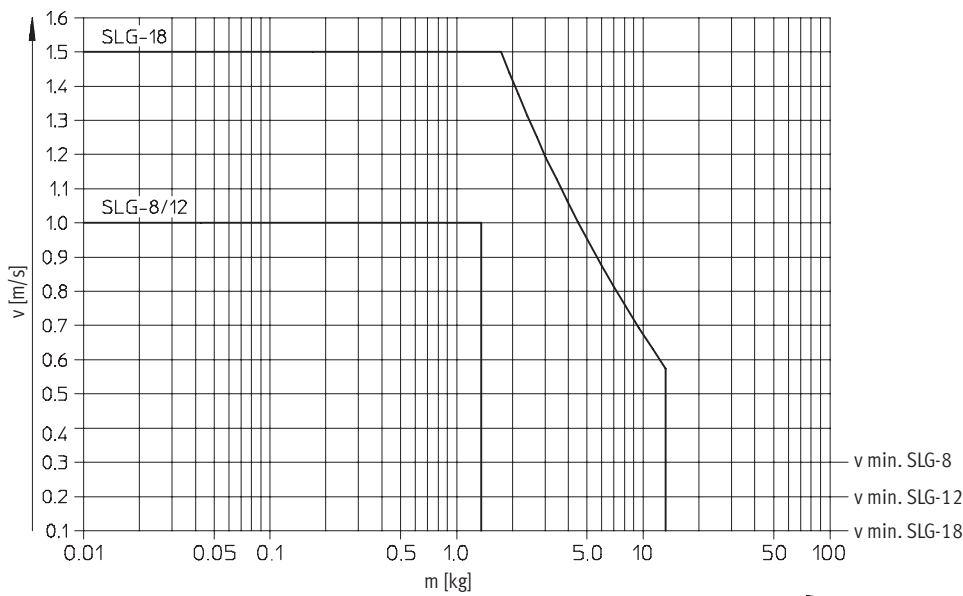
A linear drive SLG with YSR cushioning (YSRG shock absorbers) must be used in applications requiring very high repetition accuracy.



Cushioning P



YSR cushioning



Linear drives SLG, flat design

Technical data

FESTO

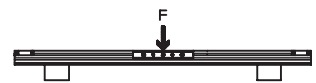
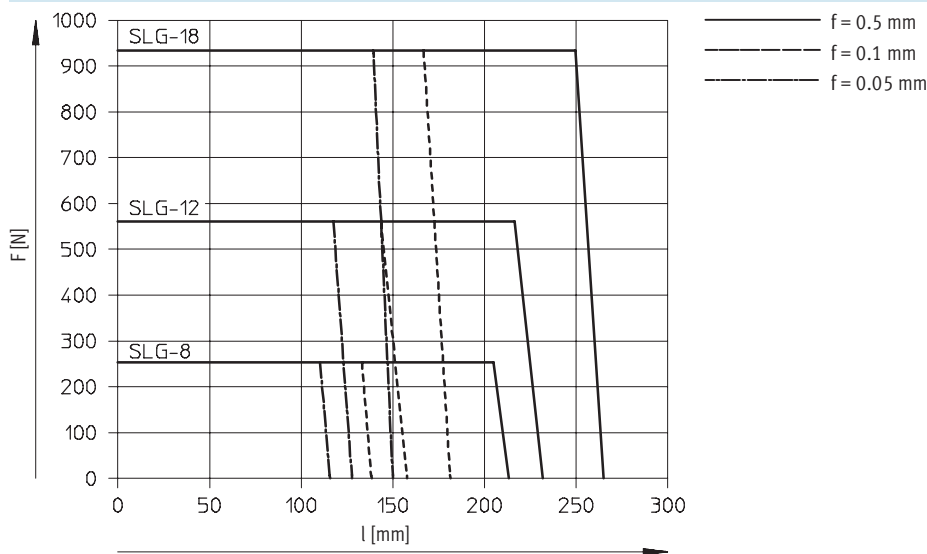
Determination of required points of support as a function of applied load F



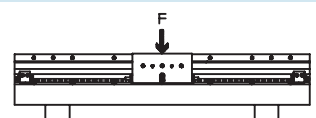
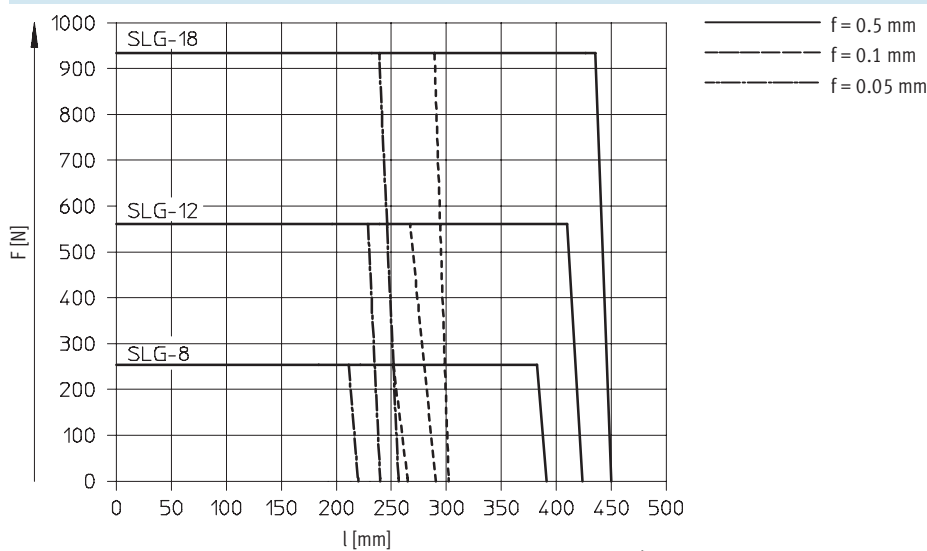
Note

The support spacings L must be laid out in such a way that the mounting profile for the intermediate position module will exhibit less deflection than the drive itself.

Deflection around the X axis



Deflection around the Y axis



Flatness of the bearing surface

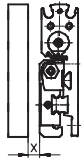
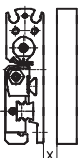
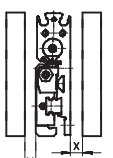
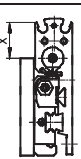
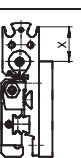
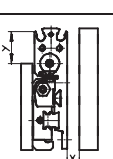
Contact surfaces which support the linear drive SLG should be no farther than 100 mm apart, or over its entire length and should be flat to within at

least 0.1 mm. The support surface for the load on the slide should be flat to within at least 0.05 mm.

Linear drives SLG, flat design

Technical data

FESTO

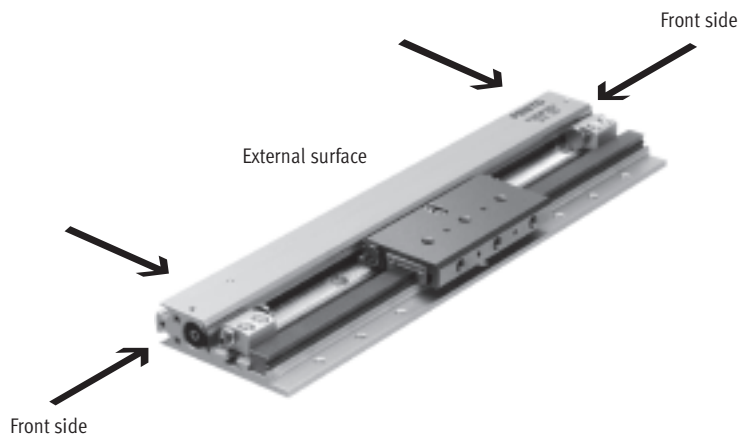
Minimum clearances for linear drives SLG to ferrite materials for reliable proximity switch functioning				
		Slot 1 Slot 2 	Minimum clearances in mm	
			x	y
	SLG-8	1	5	–
		2	5	–
	SLG-12	1	6	–
		2	5	–
	SLG-18	1	5	–
		2	5	–
	SLG-8	1	5	–
		2	10	–
	SLG-12	1	5	–
		2	6	–
	SLG-18	1	5	–
		2	5	–
	SLG-8	1	7	–
		2	10	–
	SLG-12	1	10	–
		2	10	–
	SLG-18	1	5	–
		2	5	–
	SLG-8	1	14	–
		2	12	–
	SLG-12	1	16	–
		2	1	–
	SLG-18	1	2	–
		2	2	–
	SLG-8	1	7	–
		2	17	–
	SLG-12	1	1	–
		2	17	–
	SLG-18	1	1	–
		2	12	–
	SLG-8	1	11	17
		2	15	17
	SLG-12	1	7	16
		2	10	16
	SLG-18	1	5	12
		2	5	12

Linear drives SLG, flat design

Technical data

FESTO

Permissible spanner widths for the compressed air connectors



In general

The following spanner widths can be used on the external surface and front side:

SLG-8:	≈ 5.5 ... 8
SLG-12:	≈ 5.5 ... 8
SLG-18:	≈ 8 ... 10

Restrictions on the front sides

The threaded connectors protrude from the top or bottom of the profile with compressed air connections at both ends. The connector threads are too close to one another for the threaded fittings with compressed air connections at one end only.

For this reason, the following spanner widths can only be used in certain conditions:

SLG-8:	≈ 8
SLG-12:	≈ 8
SLG-18:	≈ 10

Linear drives SLG, flat design

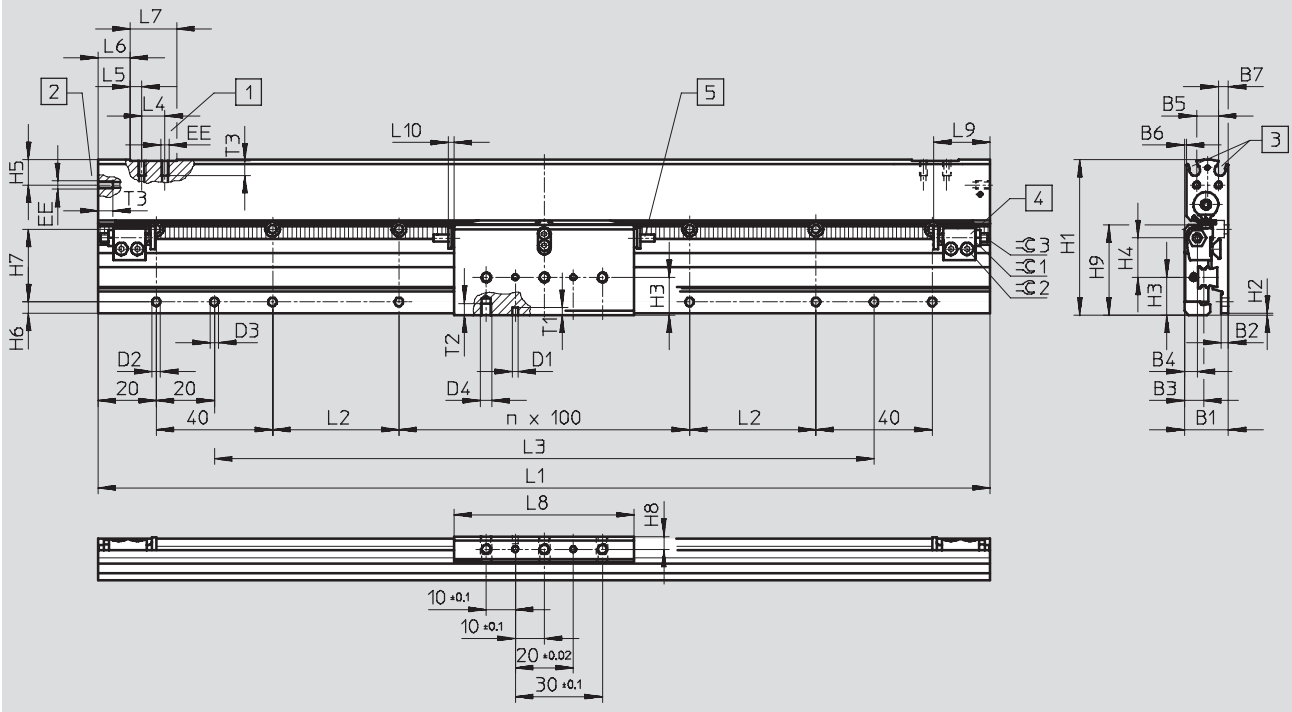
Technical data

FESTO

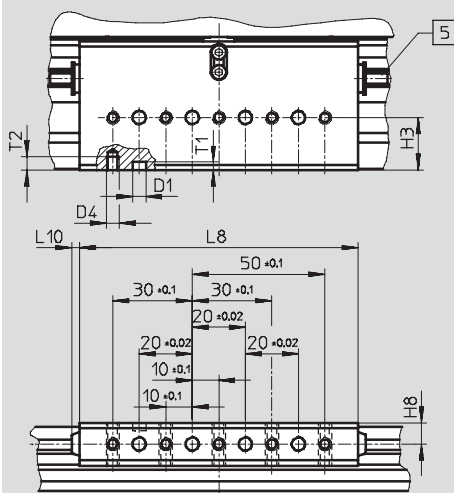
Dimensions

SLG-8/-12/-18

Download CAD data → www.festo.com



Slide SLG-18



- 1 Supply port, external surface
- 2 Supply port, front side
- 3 Slot for proximity sensor SME-/SMT-10
- 4 Stop
- 5 Shock absorber YSR or rubber buffer (P cushioning)

Linear drives SLG, flat design

Technical data

FESTO

	B1	B2	B3	B4	B5	B6	B7	D1 ¹⁾ Ø H7	D2 Ø	D3 ¹⁾ Ø H7	D4	EE	H1	H2	H3	H4	H5	H6	H7
SLG-8	15	2.5	6.6	4.4	7.5	0.65	3.5	2	3.4	3	M4	M3	53.5	0.5	13	13.6	8.8	3.9	25
SLG-12	18.5	2.6	7.9	5.2	8.5	0.5	4.75	2	3.4	3	M4	M3	64.5	0.5	15.9	16.5	9.5	4.3	30
SLG-18	25.5	3.5	13.3	8	13.2	1.6	5.4	5	4.5	5	M5	M5	85.5	0.5	19.8	21.7	11.5	4.1	40

	H8	H9	n	L1	L2	L3	L4	L5	L6	L7	L8	L9 min.	L10	T1	T2 min.	T3	≈C1	≈C2	≈C3
SLG-8-100	4.4	31	0	207	43.5	127	10	5	10	20	62	20	2	2.5	4	4.5	5.5	1.5	1.5
SLG-8-200			1	307		227													
SLG-8-300			2	407		327													
SLG-8-400			3	507		427													
SLG-8-500			4	607		527													
SLG-12-100	5.25	36.7	0	233	56.5	153	10	5	10	20	80	36.5	2	2.5	4	4.5	7	2	2
SLG-12-200			1	333		253													
SLG-12-300			2	433		353													
SLG-12-400			3	533		453													
SLG-12-500			4	633		553													
SLG-12-600			5	733		653													
SLG-12-700			6	833		753													
SLG-18-100	8	48.5	0	271	75.5	191	12	6	13	24	105	29	3	3	5	6	8	2.5	2.5
SLG-18-200			1	371		291													
SLG-18-300			2	471		391													
SLG-18-400			3	571		491													
SLG-18-500			4	671		591													
SLG-18-600			5	771		691													
SLG-18-700			6	871		791													
SLG-18-800			7	971		891													
SLG-18-900			8	1071		991													

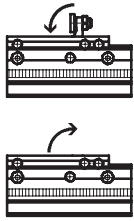
1) Locating hole for ZBS centering pins

Linear drives SLG, flat design

Technical data – Intermediate position module SLG-Z

FESTO

Function



General technical data			
Piston Ø	8	12	18
Pneumatic connection	M3		
Mode of operation	Double-acting		
Operating medium	Filtered compressed air, lubricated or unlubricated		
Constructional design	Stop in the form of a semi-rotary device in accordance with the rack and pinion principle		
Fine adjustment of the intermediate position [mm]	1.7		
Cushioning ¹⁾	→10		
Position sensing	For proximity sensor		
Type of mounting	Direct mounting		
Assembly position ²⁾	Any		
Min. swivel time [ms] at 6 bar	30		50
Max. frequency [1/s] at 6 bar	16		10
Max. permissible impact velocity [m/s]	1		1.5
Max. perm. end-stop impact force ³⁾ [N]	320		600

1) The end position of the slide or another drive is not exactly defined when rubber buffers are used. Shock absorbers YSRG-... must be used for high repetition accuracy.

2) Shock absorbers YSRG-... must be used for high repetition accuracy as well as in non-horizontal movements.
With vertical installation (where the stop moves upwards), it must be ensured that no foreign objects enter the swivel range of the stop.

3) The max. stop force must act on the centre of the cushioning screw disk. Lateral forces on the cushioning screw are not permissible.

Operating and environmental conditions			
Piston Ø	8	12	18
Operating pressure [bar]	1 ... 8		
Ambient temperature ¹⁾ [°C]	-10 ... +60		

Max. permissible energy in the intermediate position			
Piston Ø	8	12	18
With P cushioning [Nm]	0.1		0.6
With YSR cushioning [Nm]	1		3

Linear drives SLG, flat design

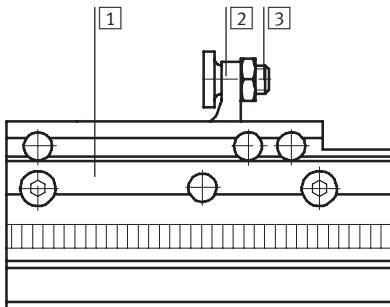
Technical data – Intermediate position module SLG-Z

FESTO

Weights [g]			
Piston Ø	8	12	18
Basic weight	33.5		75
Moving load	6		14.5

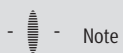
Materials

Sectional view



Intermediate position module		
1	Housing	Hard anodized aluminum
2	Stop	Nickel plated steel
3	Cushioning screw	High-alloy steel
–	Seals	Polyurethane

Mounting options on linear drive				
Piston Ø		8	12	18
Through-holes for direct mounting with screws to DIN 912	Intermediate position module	M2.5		M3
	Shock absorber retainer	M4		M5
	Mounting rail	M3		M4
Centering pins	Intermediate position module	Ø 4H7		Ø 5H7
	Shock absorber retainer	Ø 2H7		Ø 5H7
	Mounting rail	Ø 3H7		Ø 5H7



Note

The module's symmetric design makes it suitable for both approach directions.

Linear drives SLG, flat design

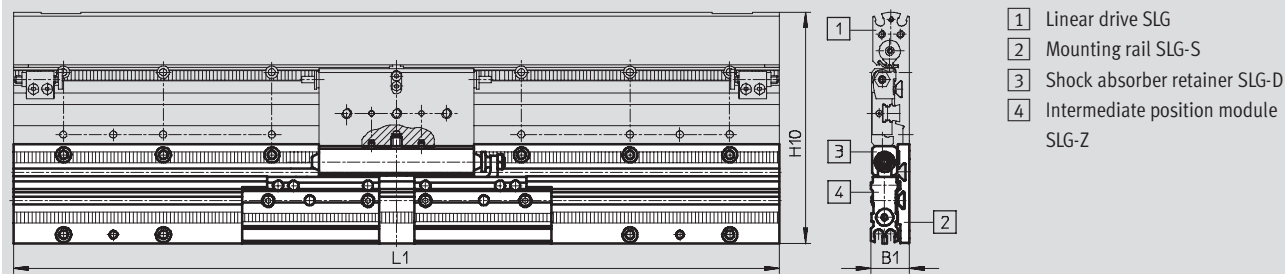
Technical data – Intermediate position module SLG-Z

FESTO

Dimensions

Download CAD data → www.festo.com

SLG-Z-.../SLG-D-.../SLG-S-...



Type	B1	H10	L1
SLG-8-100	15	93.1	207
SLG-8-200			307
SLG-8-300			407
SLG-8-400			507
SLG-8-500			607
SLG-12-100	18.5	104.1	233
SLG-12-200			333
SLG-12-300			433
SLG-12-400			533
SLG-12-500			633
SLG-12-600			733
SLG-12-700			833
SLG-18-100	25.5	135.5	271
SLG-18-200			371
SLG-18-300			471
SLG-18-400			571
SLG-18-500			671
SLG-18-600			771
SLG-18-700			871
SLG-18-800			971
SLG-18-900			1071

Linear drives SLG, flat design

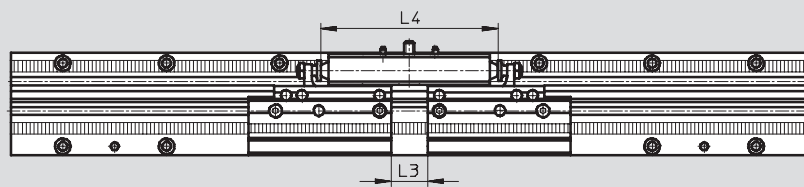
Technical data – Intermediate position module SLG-Z

FESTO

Dimensions

Download CAD data → www.festo.com

The same position approached from two directions

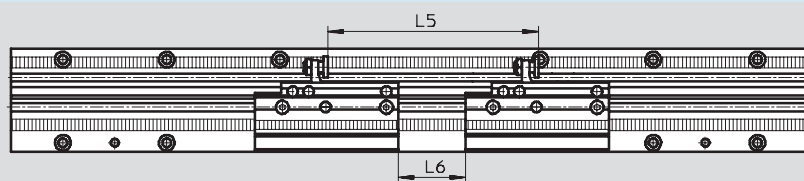


Piston Ø	L3 ¹⁾		L4
	min.	max.	
8 ²⁾	21	27	68
12	39	45	86
18	50	56.5	111

1) Depends on the fine adjustment

2) Due to the narrowness of the space L3 only the following threaded connectors can be used for the compressed air connections:
30 491 LCN-M3-PK-2-B

Two positions approached from the same direction



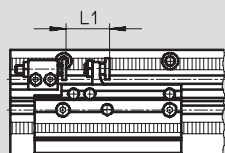
Note

The space for 2 intermediate positions can be reduced to 0 mm by turning the second module by 90° in the same plane (→ 21).

Piston Ø	L5 min.	L6 ³⁾
8	90	32
12	90	
18	97	

3) The space between the modules is such that the following threaded connectors can be used for the compressed air connections:
153 330 QSML-M3-3
153 332 QSML-M3-4
30 491 LCN-M3-PK-2-B
30 984 LCN-M3-PK-2

Space between end stop and intermediate position module



Piston Ø	L1 min.
8	20
12	
18	

Linear drives SLG, flat design

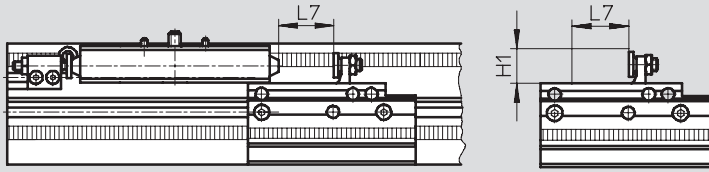
Technical data – Intermediate position module SLG-Z

FESTO

Dimensions

Download CAD data → www.festo.com

In different mounting planes



-  - Note

Care must be taken to ensure that each intermediate position module has sufficient space for the swivel movement in the specified range (both outwards and inwards) while it is swivelling. This corresponds to the distance (stroke) that the shock absorber retainer must travel from the intermediate position to ensure safe inward or outward swivelling of the stop (→ 21).

Piston Ø	H1	L7	
		Cushioning P	YSR cushioning
8	11	18	23
12	11	18	23
18	16	23	31

Maximum number of intermediate position modules on one mounting rail

The number of intermediate position modules that can be ordered via the linear drive SLG modular product system is restricted to max. 4.

If additional intermediate positions are required, further modules can be ordered separately (→ 23) and fitted in another mounting plane.

Piston Ø	Stroke length of the mounting rail [mm]								
	100	200	300	400	500	600	700	800	900
8	2		3	4		–	–	–	–
12						4		–	–
18								4	

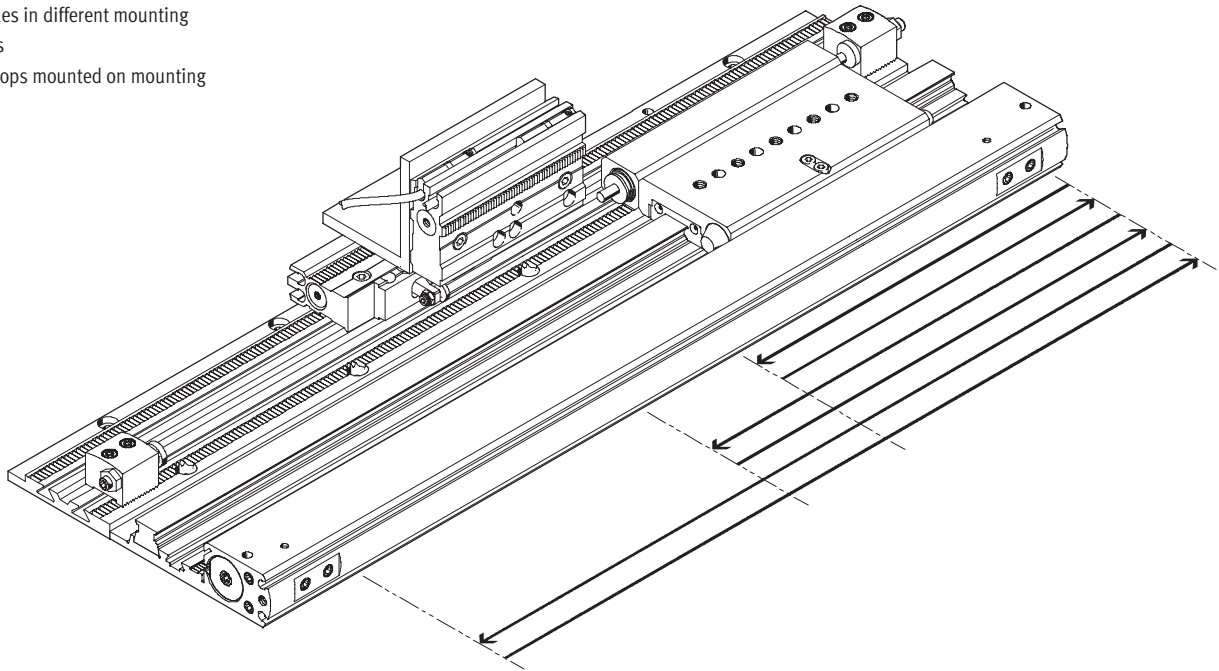
Linear drives SLG, flat design

Technical data – Intermediate position module SLG-Z

FESTO

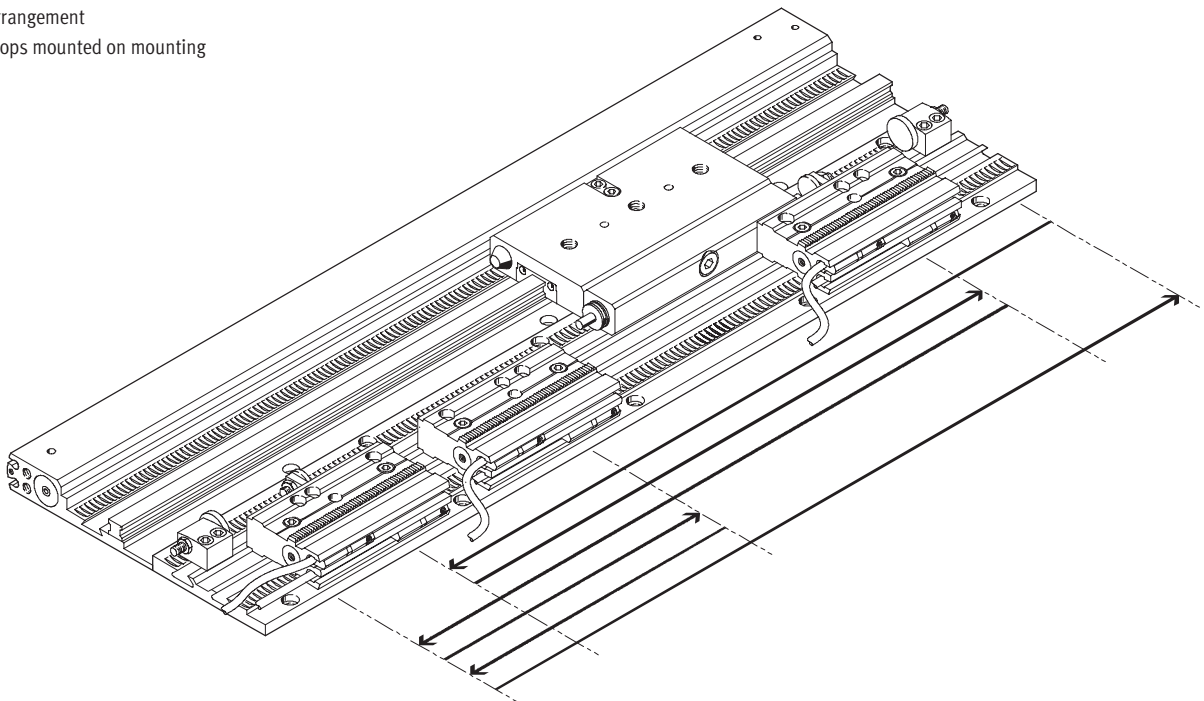
Linear drive SLG with 2 intermediate positions

- Modules in different mounting planes
- End stops mounted on mounting rail



Linear drive SLG with 3 intermediate positions

- Flat arrangement
- End stops mounted on mounting rail



Linear drives SLG, flat design

Ordering data – Modular product system

FESTO

Rodless cylinders
Mechanically coupled

3.1

M Mandatory data						Options
Module No.	Drive function	Size	Stroke	Cushioning	Position sensing	Intermediate position
187 857 187 855 187 853	SLG	8 12 18	100 ... 900	P YSR	A	Z1 Z2 Z3 Z4
Ordering example						
187 853	SLG	- 18	- 800	- P	- A	- Z4

Ordering table							
Size	8	12	18	Condi- tions	Code	Enter code	
M Module No.	187 857	187 855	187 853				
Drive function	Rodless linear drive unit				SLG		SLG
Size [mm]	8	12	18		-...		
Stroke [mm]	100	100	100	1	-100		
	200	200	200	1	-200		
	300	300	300	2	-300		
	400	400	400		-400		
	500	500	500		-500		
	-	600	600		-600		
	-	700	700		-700		
	-	-	800		-800		
	-	-	900		-900		
Cushioning	Flexible cushioning rings in the end positions				-P		
	Shock absorbers in the end positions				-YSR		
Position sensing	For proximity sensing				-A		-A
O Intermediate position	1 intermediate position				-Z1		
	2 intermediate positions				-Z2		
	3 intermediate positions				-Z3		
	4 intermediate positions				-Z4		

1 100, 200 Max. 2 intermediate positions.

2 300 Max. 3 intermediate positions.

Transfer order code

	SLG	-		-		-	A	-	
--	-----	---	--	---	--	---	---	---	--

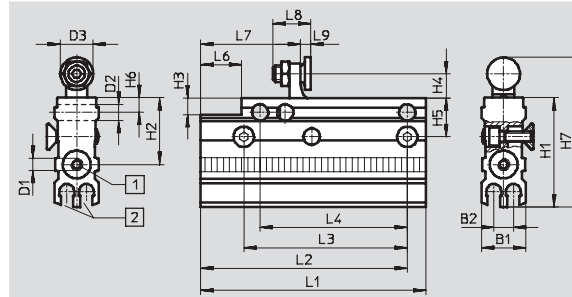
Linear drives SLG, flat design

Accessories

FESTO

Intermediate position module SLG-Z

Technical data → 16



- 1 Air connections on both sides
- 2 Slot for proximity sensor
SME-/SMT-10

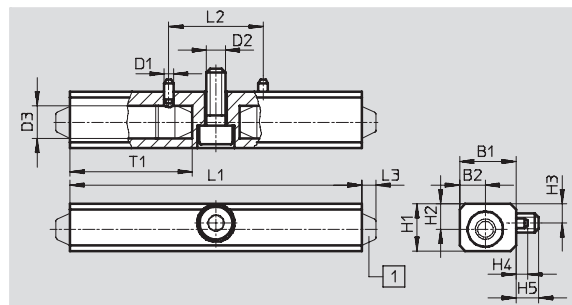
Dimensions and ordering data

For Ø	B1	B2	D1	D2 Ø H7	D3 Ø	H1	H2	H3	H4	H5	H6	H7	L1
													+0.3
8, 12	10.8	4.8	M3	4	8	26.6	16.2	4	6	9.5	3.5	36.6	55
18	15.6	4.8	M3	5	10	29.6	19.2	–	9.6	11.5	4.3	44.2	62

For Ø	L2	L3	L4	L6	L7	L8	L9		Weights [g]	Part No.	Type
							min.	max.			
	±0.1	±0.1	±0.02								
8, 12	50.5	40	36	10	24.4	9.25	2.5	4.2	39.5	525 680	SLG-Z-8/12-A
18	57.5	50	50	–	21.6	12	3.7	5.4	89.5	525 681	SLG-Z-18-A

Shock absorber retainer SLG-D

Material: Hard anodized aluminum



- 1 Rubber buffer or shock absorber

Dimensions and ordering data

For Ø	B1	B2	D1 Ø H7/h8	D2	D3 Ø	H1	H2	H3
								–0.1
8	11.5	5	2	M4	7.5 _{+0.05}	10	5.4	4.1
12								
18	17	8	5	M5	10 _{+0.02}	15	7.5	7.75

For Ø	H4	H5	L1	L2	L3	T1	Weights [g]	Part No.	Type
				±0.02					
8	2.25	4.8	62	20	3	26	17/27.5 ²⁾	525 703	SLG-D-8 ¹⁾
12			80				22.5/33 ²⁾	525 704	SLG-D-12 ¹⁾
18	2	4.7	105	60	3	43	60/104 ²⁾	525 705	SLG-D-18 ¹⁾

1) Shock absorber elements are not included in the scope of delivery

2) With P cushioning/with YSR cushioning

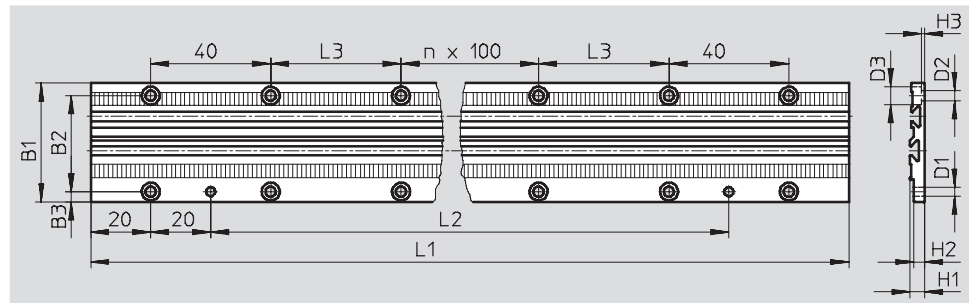
Linear drives SLG, flat design

Accessories

FESTO

Mounting rail SLG-S

Material: Hard anodized aluminum



Dimensions and ordering data																	
For Ø	Stroke	B1	B2	B3	D1 Ø H7	D2 Ø	D3 Ø	H1	H2	H3	n	L1	L2	L3	Weights	Part No.	Type
	[mm]														[g]		
8	100	39.6	32	3.4	3	3.4	6	4.8	3.5	0.9	0	207	127	43.5	73.5	525 682	SLG-S-8-100
	200										1	307	227		109	525 683	SLG-S-8-200
	300										2	407	327		144.5	525 684	SLG-S-8-300
	400										3	507	427		180	525 685	SLG-S-8-400
	500										4	607	527		215.5	525 686	SLG-S-8-500
12	100	39.6	32	3.5	3	3.4	6	7.2	1.9	1.9	0	233	153	56.5	110.4	525 687	SLG-S-12-100
	200										1	333	253		157.8	525 688	SLG-S-12-200
	300										2	433	353		205.2	525 689	SLG-S-12-300
	400										3	533	453		252.6	525 690	SLG-S-12-400
	500										4	633	553		300	525 691	SLG-S-12-500
	600										5	733	653		347.4	525 692	SLG-S-12-600
	700										6	833	753		394.8	525 693	SLG-S-12-700
18	100	50	40	4.75	5	4.5	7.5	10.3	9	2.5	0	271	191	75.5	245.6	525 694	SLG-S-18-100
	200										1	371	291		336.2	525 695	SLG-S-18-200
	300										2	471	391		426.8	525 696	SLG-S-18-300
	400										3	571	491		517.4	525 697	SLG-S-18-400
	500										4	671	591		608	525 698	SLG-S-18-500
	600										5	771	691		698.6	525 699	SLG-S-18-600
	700										6	871	791		789.2	525 700	SLG-S-18-700
	800										7	971	891		879.8	525 701	SLG-S-18-800
	900										8	1071	991		970.4	525 702	SLG-S-18-900

Linear drives SLG, flat design

Accessories

FESTO

Rubber buffer SLG



Ordering data			
For Ø	Weights [g]	Part No.	Type
8, 12	1.5	379 802	SLG-8/12
18	6	381 219	SLG-18

Shock absorber YSRG

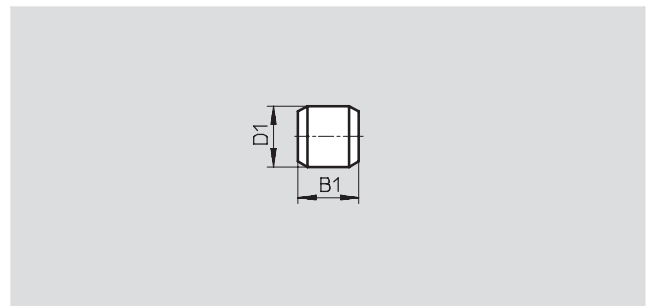


Ordering data			
For Ø	Weights [g]	Part No.	Type
8, 12	7	381 042	YSRG-5-5-C
18	27	384 581	YSRG-8-8-C

Centering pin ZBS

Material:

Stainless steel



Dimensions and ordering data						
For Ø	B1	D1 Ø	Weights	Part No.	Type	PE ¹⁾
[mm]	-0.2	h8	[g]			
8, 12	5	2	1	525 273	ZBS-2	10
18	5	5	1	150 928	ZBS-5	10

1) Packaging unit quantity

Linear drives SLG, flat design

Accessories

FESTO

Ordering data – Proximity sensors for C-slot, magneto-resistive					Technical data → Internet: smt	
	Type of mounting	Switch output	Electrical connection, connection direction	Cable length [m]	Part No.	Type
N/O contact						
	Insertable in the slot from above, flush with cylinder profile	PNP	Cable, 3-wire, in-line	2.5	525 915	SMT-10F-PS-24V-K2,5L-OE
			Plug M8x1, 3-pin, in-line	0.3	525 916	SMT-10F-PS-24V-K0,3L-M8D
			Plug M8x1, 3-pin, lateral	0.3	526 675	SMT-10F-PS-24V-K0,3Q-M8D
	Insertable in the slot lengthwise	PNP	Plug M8x1, 3-pin, in-line	0.3	173 220	SMT-10-PS-SL-LED-24
			Cable, 3-wire, in-line	2.5	173 218	SMT-10-PS-KL-LED-24

Ordering data – Proximity sensors for C-slot, magnetic reed					Technical data → Internet: sme	
	Type of mounting	Switch output	Electrical connection, connection direction	Cable length [m]	Part No.	Type
N/O contact						
	Insertable in the slot from above, flush with cylinder profile	Contacting	Plug M8x1, 3-pin, in-line	0.3	525 914	SME-10F-DS-24V-K0,3L-M8D
			Cable, 3-wire, in-line	2.5	525 913	SME-10F-DS-24V-K2,5L-OE
			Cable, 2-wire, in-line	2.5	526 672	SME-10F-ZS-24V-K2,5L-OE
	Insertable in the slot lengthwise	Contacting	Plug M8x1, 3-pin, in-line	0.3	173 212	SME-10-SL-LED-24
			Cable, 3-wire, in-line	2.5	173 210	SME-10-KL-LED-24

Ordering data – Connecting cables				Technical data → Internet: nebu	
	Electrical connection, left	Electrical connection, right	Cable length [m]	Part No.	Type
	Straight socket, M8x1, 3-pin	Cable, open end, 3-wire	2.5	541 333	NEBU-M8G3-K-2.5-LE3
			5	541 334	NEBU-M8G3-K-5-LE3
	Angled socket, M8x1, 3-pin	Cable, open end, 3-wire	2.5	541 338	NEBU-M8W3-K-2.5-LE3
			5	541 341	NEBU-M8W3-K-5-LE3

Ordering data – One-way flow control valves				Technical data → Internet: grla	
	Connection		Material	Part No.	Type
	Thread	For tubing OD			
	M3	3	Metal design	175 041	GRLA-M3-QS-3
	M5	4		193 138	GRLA-M5-QS-4-D

Product Range and Company Overview

A Complete Suite of Automation Services

Our experienced engineers provide complete support at every stage of your development process, including: conceptualization, analysis, engineering, design, assembly, documentation, validation, and production.



Custom Automation Components
Complete custom engineered solutions



Custom Control Cabinets
Comprehensive engineering support
and on-site services



Complete Systems
Shipment, stocking and storage services

The Broadest Range of Automation Components

With a comprehensive line of more than 30,000 automation components, Festo is capable of solving the most complex automation requirements.



Electromechanical
Electromechanical actuators, motors,
controllers & drives



Pneumatics
Pneumatic linear and rotary actuators,
valves, and air supply



PLCs and I/O Devices
PLC's, operator interfaces, sensors
and I/O devices

Supporting Advanced Automation... As No One Else Can!

Festo is a leading global manufacturer of pneumatic and electromechanical systems, components and controls for industrial automation, with more than 12,000 employees in 56 national headquarters serving more than 180 countries. For more than 80 years, Festo has continuously elevated the state of manufacturing with innovations and optimized motion control solutions that deliver higher performing, more profitable automated manufacturing and processing equipment. Our dedication to the advancement of automation extends beyond technology to the education and development of current and future automation and robotics designers with simulation tools, teaching programs, and on-site services.

Quality Assurance, ISO 9001 and ISO 14001 Certifications

Festo Corporation is committed to supply all Festo products and services that will meet or exceed our customers' requirements in product quality, delivery, customer service and satisfaction.

To meet this commitment, we strive to ensure a consistent, integrated, and systematic approach to management that will meet or exceed the requirements of the ISO 9001 standard for Quality Management and the ISO 14001 standard for Environmental Management.



© Copyright 2008, Festo Corporation. While every effort is made to ensure that all dimensions and specifications are correct, Festo cannot guarantee that publications are completely free of any error, in particular typing or printing errors. Accordingly, Festo cannot be held responsible for the same. For Liability and Warranty conditions, refer to our "Terms and Conditions of Sale", available from your local Festo office. All rights reserved. No part of this publication may be reproduced, distributed, or transmitted in any form or by any means, electronic, mechanical, photocopying or otherwise, without the prior written permission of Festo. All technical data subject to change according to technical update.



Printed on recycled paper at New Horizon Graphic, Inc., FSC certified as an environmentally friendly printing plant.

Festo North America

United States

Customer Resource Center

502 Earth City Expy., Suite 125
Earth City, MO 63045

For ordering assistance, or to find
your nearest Festo Distributor,

Call: 1.800.99.FESTO

Fax: 1.800.96.FESTO

Email: customer.service@us.festo.com

For technical support,

Call: 1.866.GO.FESTO

Fax: 1.800.96.FESTO

Email: product.support@us.festo.com

Headquarters

Festo Corporation
395 Moreland Road
P.O. Box 18023
Hauppauge, NY 11788
www.festo.com/us

Sales Offices

Appleton

N. 922 Tower View Drive, Suite N
Greenville, WI 54942

Boston

120 Presidential Way, Suite 330
Woburn, MA 01801

Chicago

1441 East Business Center Drive
Mt. Prospect, IL 60056

Dallas

1825 Lakeway Drive, Suite 600
Lewisville, TX 75057

Detroit - Automotive Engineering Center

2601 Cambridge Court, Suite 320
Auburn Hills, MI 48326

New York

395 Moreland Road
Hauppauge, NY 11788

Silicon Valley

4935 Southfront Road, Suite F
Livermore, CA 94550

Design and Manufacturing Operations



East: 395 Moreland Road, Hauppauge, NY 11788



Central: 1441 East Business Center Drive, Mt. Prospect, IL 60056



West: 4935 Southfront Road, Suite F, Livermore, CA 94550

Mexico

Headquarters

Festo Pneumatic, S.A.
Av. Ceylán 3, Col. Tequesquahuac
54020 Tlalnepantla, Edo. de México
Call: 011 52 [55] 53 21 66 00
Fax: 011 52 [55] 53 21 66 65
Email: festo.mexico@mx.festo.com
www.festo.com/mx



Canada

Headquarters

Festo Inc.
5300 Explorer Drive
Mississauga, Ontario L4W 5G4
Call: 1.905.624.9000
Fax: 1.905.624.9001
Email: info.ca@ca.festo.com
www.festo.com/ca



Festo Worldwide

Argentina Australia Austria Belarus Belgium Brazil Bulgaria Canada Chile China Colombia Croatia Czech Republic Denmark
Estonia Finland France Germany Great Britain Greece Hong Kong Hungary India Indonesia Iran Ireland Israel Italy Japan
Latvia Lithuania Malaysia Mexico Netherlands New Zealand Norway Peru Philippines Poland Romania Russia Serbia Singapore
Slovakia Slovenia South Africa South Korea Spain Sweden Switzerland Taiwan Thailand Turkey Ukraine United States Venezuela

www.festo.com