

Linear drives SLG, flat design

FESTO



Key features

General

- Piston Ø 8, 12 and 18
- Stroke lengths from 100 ... 900 mm
- Choice of two cushioning types:
 - Elastic cushioning
 - Shock absorber
- Direct mounting via centring holes
- Extremely flat design
- Integrated precision guide
- Slide with polished surface
- High load capacity
- Adjustable end stops
- Versatile supply port options
- Suitable for multi-axis applications with other mini slides

The technology in detail

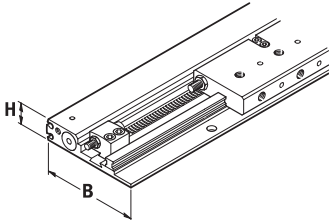


- [1] End stops:
Precisely adjustable end stops along the entire stroke range
- [2] Guide rail:
Very accurate, precise and rigid guide unit: stainless steel roller track pressed into aluminium profile with ball guide
- [3] Slide:
Interface for attachments. Very flexible thanks to wide choice of mounting and attachment options
- [4] Cushioning:
With rubber buffer or with shock absorber. The cushioning elements are inserted into the slide and fixed.
- [5] Supply port:
Option on three sides
- [6] Slot for integrated proximity switches SME-/SMT-10

Configuration

The flat linear drive SLG

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



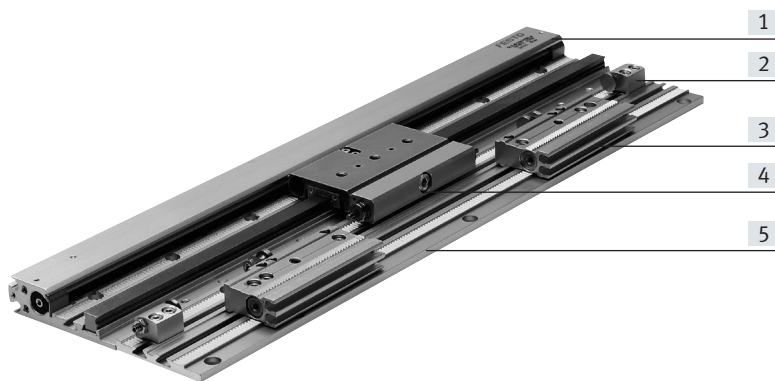
Piston Ø	Width (W) x		Height (H)
8 mm	53.5	x	15 mm
12 mm	64.5	x	18.5 mm
18 mm	85.5	x	25.5 mm

Key features

Intermediate positions – Simple and inexpensive

- The intermediate-position module can be used for moving to one or more intermediate positions
- It is mounted parallel to the linear drive SLG using an additional profile rail. This also simplifies retrofitting.
- Precision adjustment of the intermediate position is carried out 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 over the entire stroke (observe minimum distances)
- The module's symmetry means that it can advance to the right or left once mounted
- It can be activated and sensed before the movement starts
- The intermediate position (activated or initial position) can be sensed contactlessly using integrated proximity switches in the module housing
- 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

Fully assembled with two intermediate positions



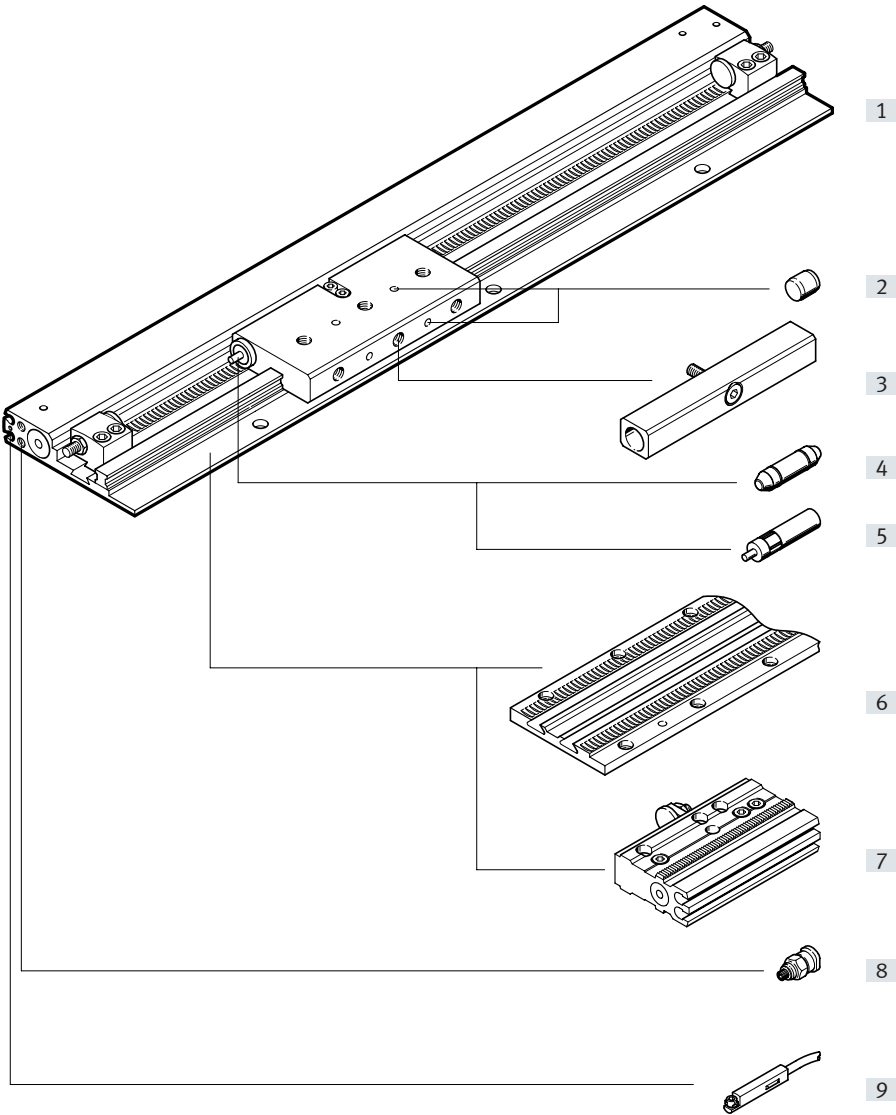
- [1] Linear drive
- [2] End stop
- [3] Intermediate-position module SLG-Z: The stop with buffer screw is retracted and advanced by a 90° swivel motion based on a double-acting semi-rotary drive (rack and pinion principle). The module is fastened to the mounting rail using screws and slot nuts.
- [4] Cushioning mount SLG-D: The mount holds the rubber buffers or shock absorbers and is attached to the slide of the SLG. The use of shock absorbers YSRG (Accessories → page 25) is recommended to ensure accurate positioning of stops and in the case of the vertical mounting positions.
- [5] Mounting rail SLG-S: The rail is used for mounting the intermediate-position modules. It can also accommodate 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 SLG.



Note

The intermediate-position module can also be used independently of the linear drive SLG. In this case, the module is simply mounted on any flat surface using retaining screws and dowel pins and can then be used universally as an autonomous intermediate-position module in numerous applications.

Peripherals overview



Peripherals overview

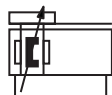
Variants and accessories		
	Type	Description
		→ Page/Internet
[1]	Linear drive SLG	Drive without accessories
[2]	Centring pin ZBS	For centring loads and attachments on the slide
[3]	Cushioning mount SLG-D	For fastening the rubber buffers or shock absorbers in combination with the intermediate-position module
[4]	Rubber buffer SLG	Non-adjustable, elastic cushioning. Only used for low speeds.
[5]	Shock absorber YSRG	Self-adjusting, hydraulic shock absorber with spring return and linear cushioning characteristics.
[6]	Mounting rail SLG-S	For fastening the intermediate-position modules and end stops
[7]	Intermediate-position module SLG-Z	Fixed stop for the intermediate position
[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
[9]	Proximity switch SME-/SMT-10	The proximity switches are fitted into the profile slot This means that the switches do not protrude.

Type codes

001	Series	
SLG	Linear drive	
002	Piston diameter	
8	8	
12	12	
18	18	
003	Stroke	
...	100 ... 900	

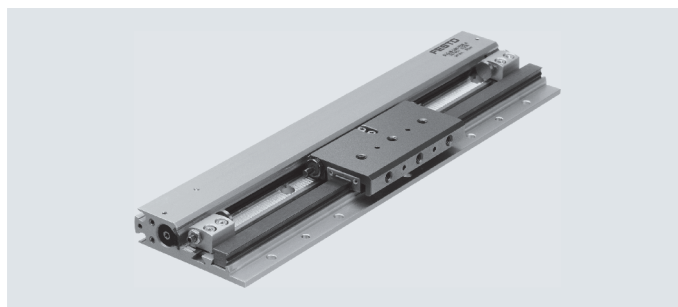
004	Cushioning	
P	Elastic cushioning rings/plates on both sides	
YSR	Self-adjusting shock absorber	
005	Position sensing	
A	For proximity sensor	
006	Intermediate position	
Z1	1 intermediate position	
Z2	2 intermediate positions	
Z3	3 intermediate positions	
Z4	4 intermediate positions	

Datasheet



Repair service

- Ø - Diameter
8 ... 18 mm
- I - Stroke length
100 ... 900 mm



General technical data			
Piston Ø	8	12	18
Stroke ¹⁾ [mm]	100 ... 500	100 ... 700	100 ... 900
Pneumatic connection	M3		M5
Operating mode	Double-acting		
Operating medium	Compressed air to ISO 8573-1:2010 [7:-:-]		
Note on the operating/ pilot medium	Lubricated operation possible (in which case lubricated operation will always be required)		
Design	Rodless actuator		
Cushioning	Elastic cushioning rings/plates at both ends		
→ Page 10	Self-adjusting at both ends		
Position sensing	Via proximity switch		
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 Ø	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 Ø	8	12	18
Theoretical force at 6 bar	30	68	153

Datasheet

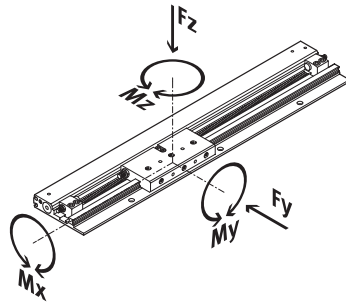
Weight [g]	8	12	18
Basic weight per 0 mm stroke With cushioning P	215	410	965
Basic weight per 0 mm stroke With cushioning YSR	225	420	995
Additional weight per 10 mm stroke	11.5	17.5	29.5
Moving mass With cushioning P	80	160	440
Moving mass With cushioning YSR	90	170	470

Materials	8	12	18
Piston Ø			
Housing material	Anodised aluminium		
Cover material	POM		
Sealing material	TPE-U(PU)		

Datasheet

Characteristic load values

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



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

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

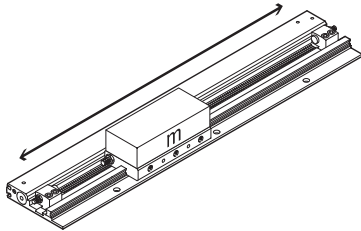
Permissible forces [N] and torques [Nm]				
Piston Ø		8	12	18
F _y _{max.}	[N]	255	565	930
F _z _{max.}	[N]	255	565	930
M _x _{max.}	[Nm]	1	3	7
M _y _{max.}	[Nm]	3.5	9	23
M _z _{max.}	[Nm]	3.5	9	23

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

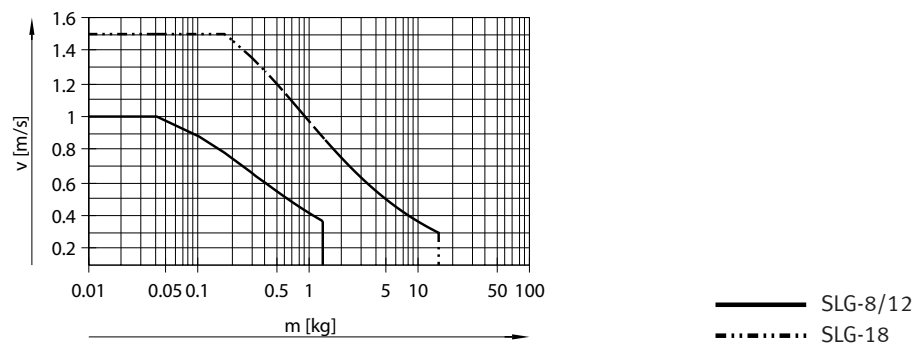
Datasheet

Maximum permissible piston speed v as a function of payload m when the unit is operated horizontally
As a function of operating pressure and end-position cushioning system

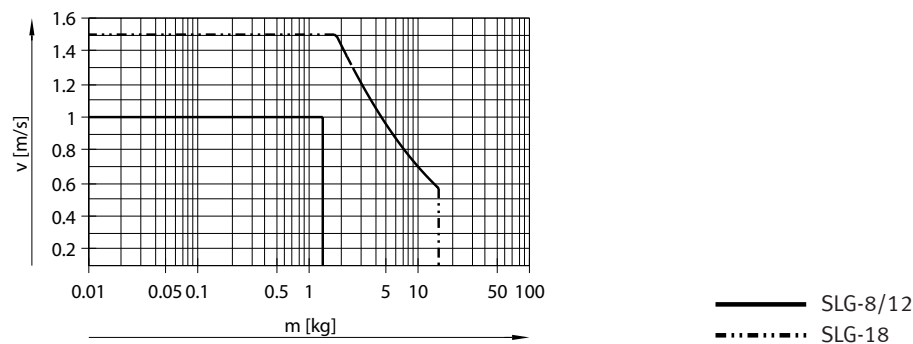
A linear drive SLG with cushioning YSR (shock absorbers YSRG) must be used in applications requiring very high repetition accuracy.



Cushioning P



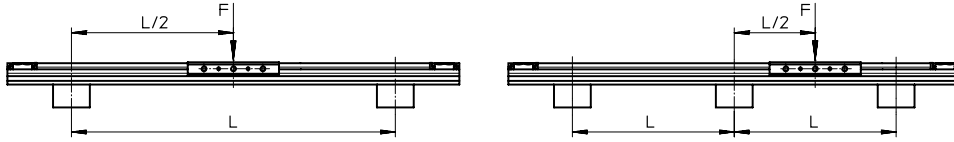
Cushioning YSR



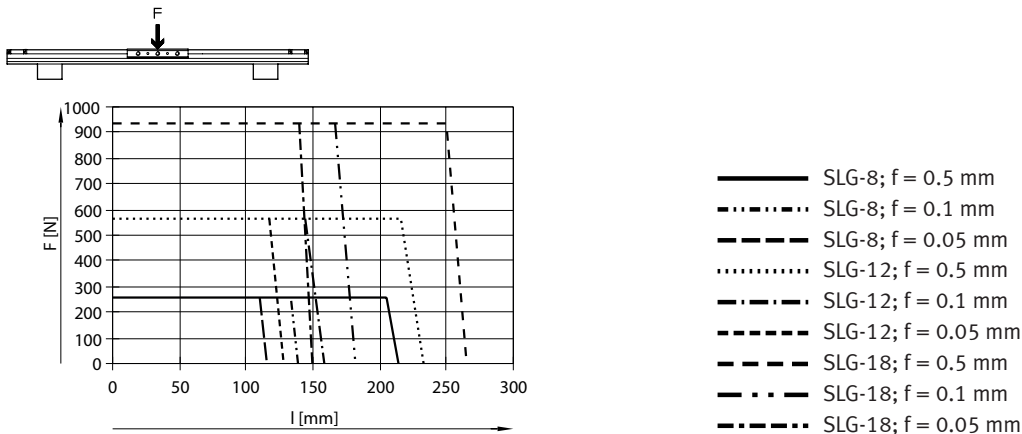
Datasheet

Determining the required support points as a function of the weight force F

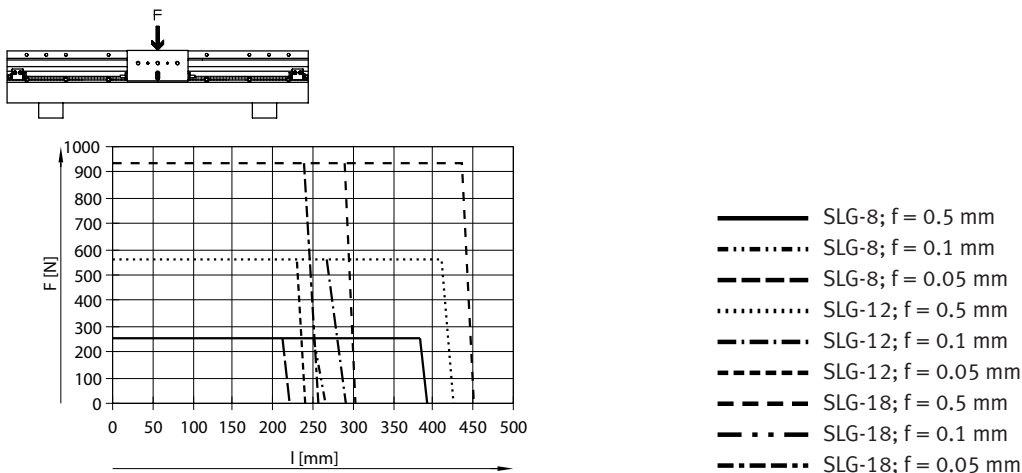
The support spacings L must be fitted in such a way that the mounting profile for the intermediate-position module will be subject to less deflection than the drive itself.



Deflection around the X axis



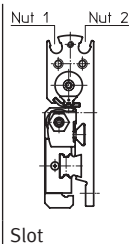
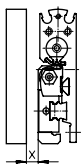
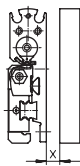
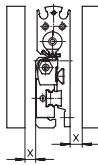
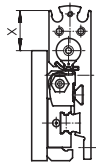
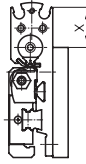
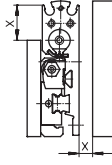
Deflection around the Y axis



Evenness of the bearing surface

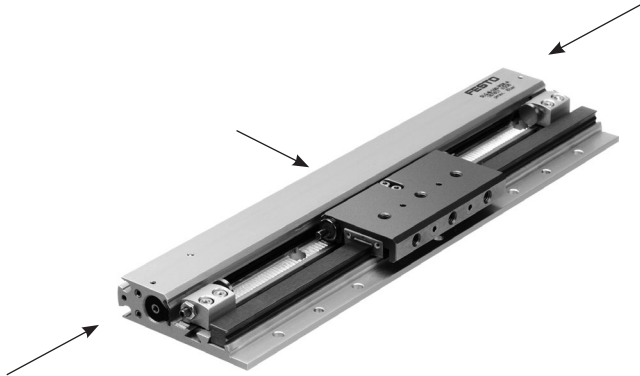
The contact points between the surface supporting the linear drive SLG and the linear drive should not be more than 100 mm apart or should provide support over its entire length, and should be flat to within at least 0.1 mm. The support surface for the payload on the slide should be flat to within at least 0.05 mm.

Datasheet

		Minimum clearances between linear drives SLG and ferritic materials for reliable functioning of the proximity switches		
			Minimum clearances in [mm]	
		Slot	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

Datasheet

Permissible spanner widths for the compressed air fittings



In general

The following spanner widths can be used on the side and end face:

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

Restrictions on the end face

With supply ports at both ends, the fittings protrude from the top or bottom of the profile. With the supply port at one end only, the connecting threads are too close to one another for the fittings. The following spanner widths can therefore only be used in certain conditions:

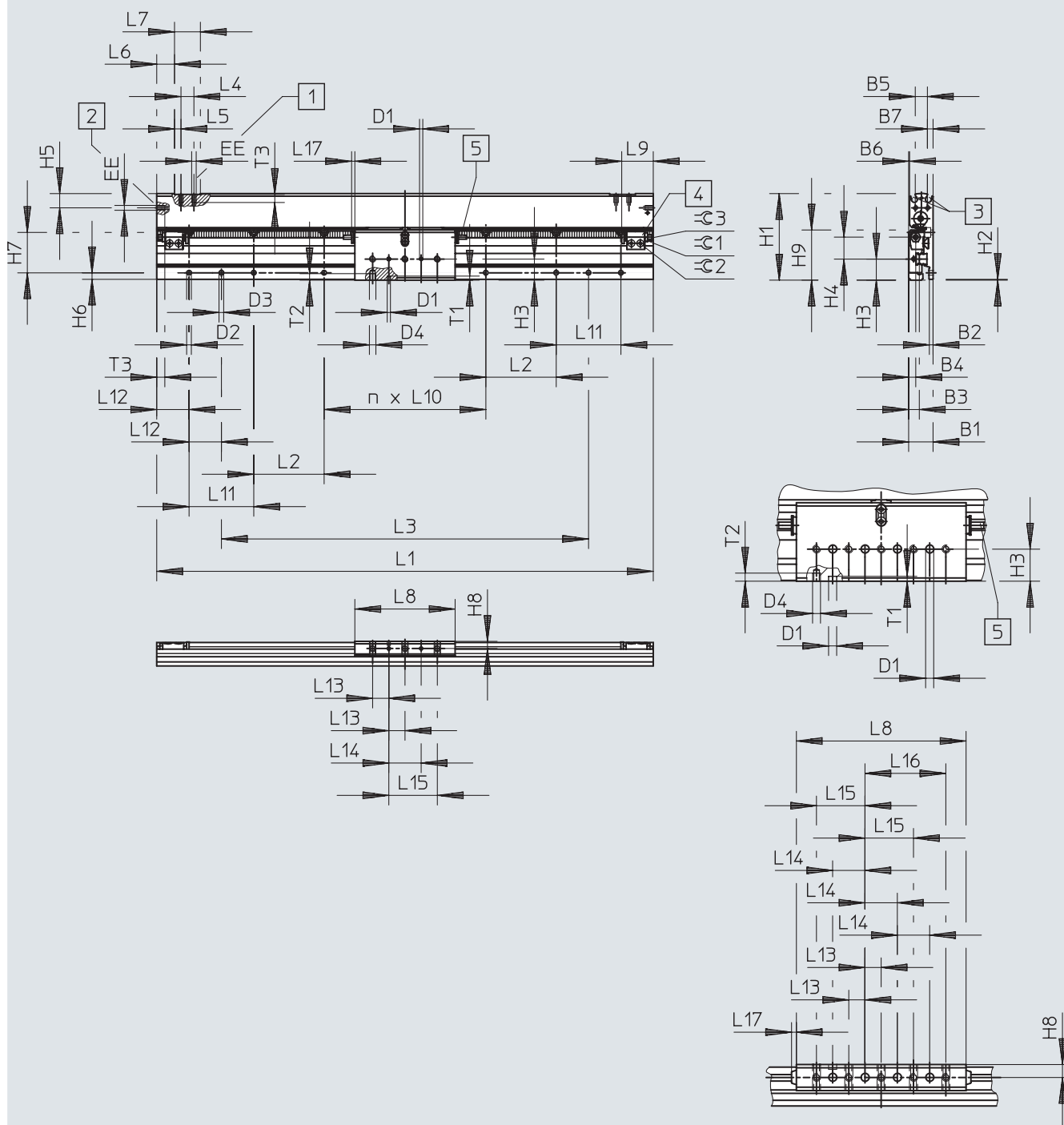
SLG-8:	⇒ 8
SLG-12:	⇒ 8
SLG-18:	⇒ 10

Datasheet

Dimensions

SLG-8/-12/-18

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- [1] Supply port on the side
- [2] Supply port on the end face
- [3] Slot for proximity switch
- [4] Stop
- [5] Shock absorber YSR or rubber buffer (cushioning P)

Datasheet

	B1	B2	B3	B4	B5	B6	B7	D1 ¹⁾ Ø H7	D2 Ø	D3 Ø H7	D4	EE	H1	H2
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
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
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

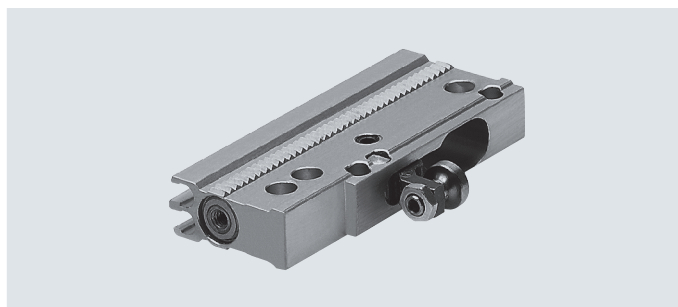
	H3	H4	H5	H6	H7	H8	H9	L2	L4	L5	L6	L7	L8	L9 min
SLG-8	13	13.6	8.8	3.9	25	4.4	31	43.5	10	5	10	20	62	20
SLG-12	15.9	16.5	9.5	4.3	30	5.25	36.7	56.5	10	5	10	20	80	23.5
SLG-18	19.8	21.7	11.5	4.1	40	8	48.5	75.5	12	6	13	24	105	29

	L10	L11	L12	L13 ±0.1	L14 ±0.02	L15 ±0.1	L16 ±0.1	L17	T1	T2 min	T3	≈C1	≈C2	≈C3
SLG-8	100	40	20	10	20	30	–	2	2.5	4	4.5	5.5	1.5	1.5
SLG-12	100	40	20	10	20	30	–	2	2.5	4	4.5	7	2	2
SLG-18	100	40	20	10	20	30	50	3	3	5	6	8	2.5	2.5

	n	L1	L3
SLG-8-100	0	207	127
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	0	233	153
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	0	271	191
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

Data sheet – Intermediate-position module SLG-Z

Function



General technical data			
Piston Ø	8	12	18
Pneumatic connection	M3		
Operating mode	Double-acting		
Operating medium	Compressed air to ISO 8573-1:2010 [7:-:-]		
Note on the operating/ pilot medium	Lubricated operation possible (in which case lubricated operation will always be required)		
Design	Rack-and-pinion rotary drive system as stop		
Precision adjustment of the intermediate position [mm]	1.7		
Cushioning ¹⁾	→ Page 10		
Position sensing	Via proximity switch		
Type of mounting	Direct mounting		
Mounting 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. permissible 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. When mounted vertically (stop pivots upwards and out), care must be taken to ensure that foreign matter cannot get into the pivoting range of the stop.

3) The max. stop force must act on the centre of the buffer screw disc. Lateral forces on the buffer 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 cushioning P [Nm]	0.1		0.6
With cushioning YSR [Nm]	1		3

Datasheet – Intermediate-position module SLG-Z

Weight [g]			
Piston Ø	8	12	18
Basic weight	33.5		75
Moving mass	6		14.5

Materials

Intermediate-position module	
[1] Housing	Hard-anodised aluminium
[2] Stop	Nickel-plated steel
[3] Buffer screw	High-alloy steel
– Seals	Polyurethane

Mounting options on the linear drive

Piston Ø		8	12	18
Through-holes for direct mounting with screws to DIN 912	Intermediate-position module	M2.5		M3
	Cushioning mount	M4		M5
	Mounting rail	M3		M4
Centring pins	Intermediate-position module	Ø 4H7		Ø 5H7
	Cushioning mount	Ø 2H7		Ø 5H7
	Mounting rail	Ø 3H7		Ø 5H7

 Note

The symmetrical design of the module makes it suitable for travel in both directions.

Datasheet – Intermediate-position module SLG-Z

Dimensions

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

[Download CAD data → www.festo.com](#)

The technical drawing shows the SLG-Z intermediate-position module. The top view indicates a total length of L1 and a mounting rail width of B1. The side view shows a height of H10. Callouts 1-4 identify the components: 1. Linear drive SLG, 2. Mounting rail SLG-S, 3. Cushioning mount SLG-D, and 4. Intermediate position module SLG-Z.

[1] Linear drive SLG

[2] Mounting rail SLG-S

[3] Cushioning mount SLG-D

[4] Intermediate position module SLG-Z

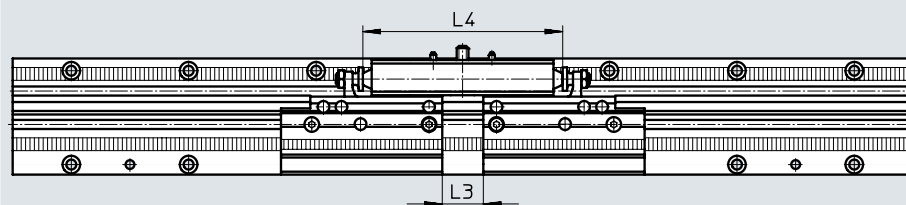
Type	B1	H10	L1
SLG-8-100	15	93.1	207
SLG-8-200			307
SLG-8-300			407
SLG-8-400			507
SLG-8-500			607
SLG-12-100	18.5	104.1	233
SLG-12-200			333
SLG-12-300			433
SLG-12-400			533
SLG-12-500			633
SLG-12-600	25.5	135.5	733
SLG-12-700			833
SLG-18-100			271
SLG-18-200			371
SLG-18-300			471
SLG-18-400	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

Datasheet – Intermediate-position module SLG-Z

Dimensions

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The same position approached from two directions



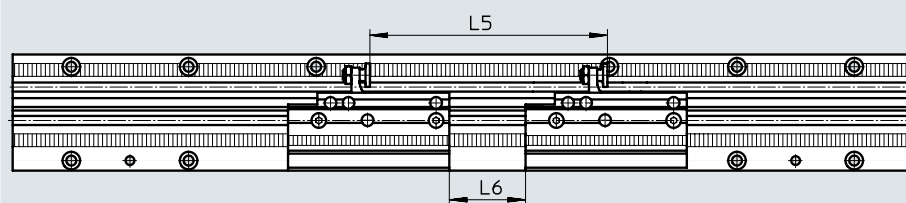
Piston ø	L3 ¹⁾		L4
	min.	max.	
8 ²⁾	21	27	68
12	39	45	86
18	50	56.5	111

1) Depends on the precision adjustment

2) Due to the narrowness of the space L3 only the following fittings can be used for the supply ports:

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 (→ page 21).

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

3) The space between the modules can accommodate the following fittings for the supply port:

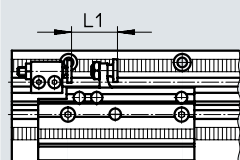
153 330 QSML-M3-3

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



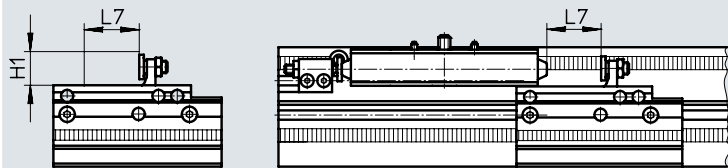
Piston ø	L1 min.
8	20
12	
18	

Datasheet – Intermediate-position module SLG-Z

Dimensions

Download CAD data → www.festo.com

In different mounting planes



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 cushioning mount must travel from the intermediate position to ensure safe inward or outward swivelling of the stop (→ page 21).

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

Maximum number of intermediate position modules on one mounting rail

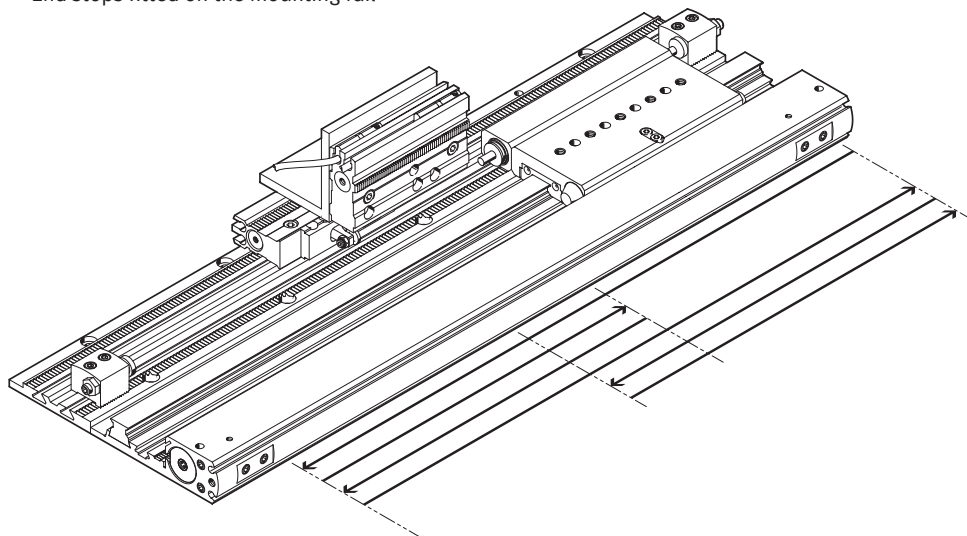
The number of intermediate-position modules that can be ordered via the modular product system in combination with the linear drive SLG is restricted to max. 4. If additional intermediate positions are required, further modules can be ordered separately (→ page 23) and fitted in another mounting plane.

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	

Datasheet – Intermediate-position module SLG-Z

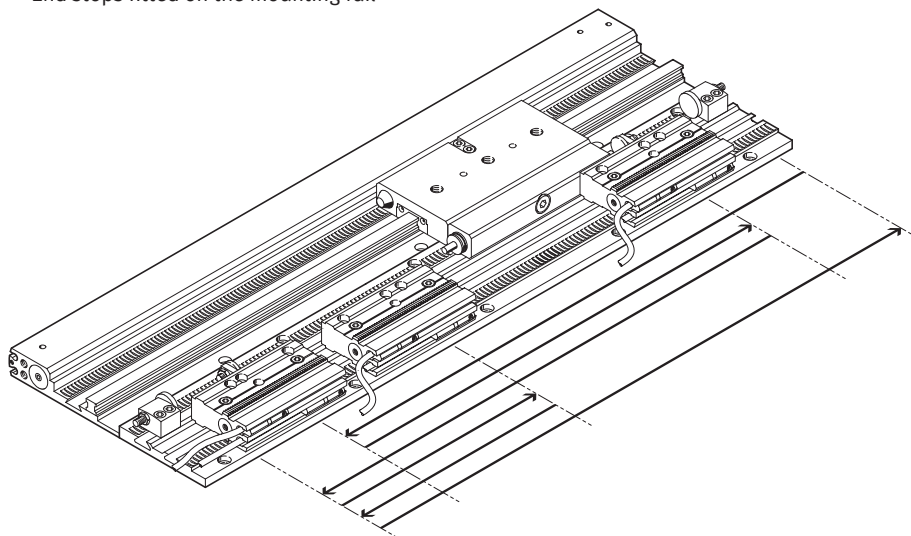
Linear drive SLG with 2 intermediate positions

- Modules in different mounting planes
- End stops fitted on the mounting rail



Linear drive SLG with 3 intermediate positions

- Flat positioning
- End stops fitted on the mounting rail



Ordering data – Modular product system

Ordering table						
Size	8	12	18	Conditions	Code	Enter code
Module no.	187857	187855	187853			
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	Elastic cushioning rings in the end positions				-P	
	Shock absorber in the end positions				-YSR	
Position sensing	Via proximity switch				-A	-A
Intermediate position	1 intermediate position				-Z1	
	2 intermediate positions				-Z2	
	3 intermediate positions				-Z3	
	4 intermediate positions				-Z4	

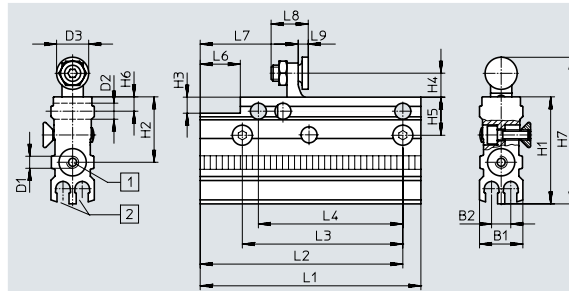
[1] 100, 200 Max. 2 intermediate positions.

[2] 300 Max. 3 intermediate positions.

Accessories

Intermediate-position module
SLG-Z

Technical data → page 16



- [1] Supply ports at both ends
[2] Slot for proximity switch
SME/SMT-10

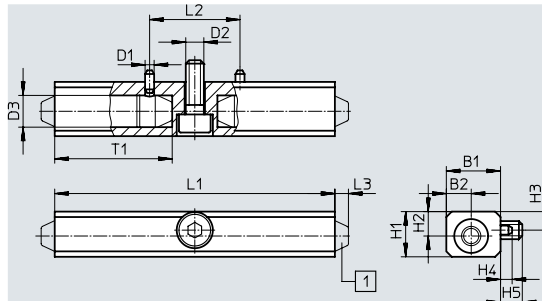
Dimensions and ordering data

For $\varnothing$	B1	B2	D1	D2 $\varnothing$ H7	D3 $\varnothing$	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 $\varnothing$	L2 ± 0.1	L3 ± 0.1	L4 ± 0.02	L6	L7	L8	L9		Weight [g]	Part no.	Type
							min.	max.			
8, 12	50.5	40	36	10	24.4	9.25	2.5	4.2	39.5	525680	SLG-Z-8/12-A
18	57.5	50	50	—	21.6	12	3.7	5.4	89.5	525681	SLG-Z-18-A

Cushioning mount SLG-D

Material: Hard-anodised aluminium



- [1] Rubber buffer or shock
absorber

Dimensions and ordering data

For $\varnothing$	B1	B2	D1 $\varnothing$ H7/h8	D2	D3 $\varnothing$	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 $\varnothing$	H4	H5	L1	L2 ± 0.02	L3	T1	Weight [g]	Part no.	Type
8	2.25	4.8	62	20	3	26	17/27.5 ²⁾	525703	SLG-D-8 ¹⁾
12			80				22.5/33 ²⁾	525704	SLG-D-12 ¹⁾
18	2	4.7	105	60	3	43	60/104 ²⁾	525705	SLG-D-18 ¹⁾

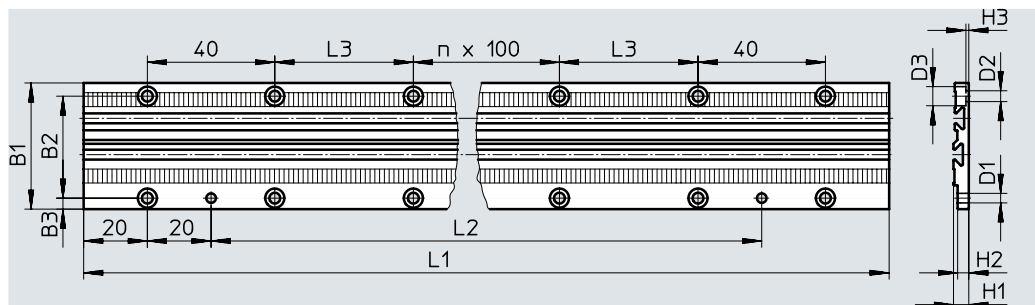
1) Shock absorber elements are not included in the scope of delivery.

2) With cushioning P/with cushioning YSR

Accessories

Mounting rail SLG-S

Material: Hard-anodised aluminium



Dimensions and ordering data

For ø	Stroke [mm]	B1	B2	B3	D1 ø H7	D2 ø	D3 ø	H1	H2	H3	n	L1	L2	L3	Weight [g]	Part no.	Type
8	100	39.6	32	3.4	3	3.4	6	4.8	3.5	0.9	0	207	127	43.5	73.5	525682	SLG-S-8-100
	200										1	307	227		109	525683	SLG-S-8-200
	300										2	407	327		144.5	525684	SLG-S-8-300
	400										3	507	427		180	525685	SLG-S-8-400
	500										4	607	527		215.5	525686	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	525687	SLG-S-12-100
	200										1	333	253		157.8	525688	SLG-S-12-200
	300										2	433	353		205.2	525689	SLG-S-12-300
	400										3	533	453		252.6	525690	SLG-S-12-400
	500										4	633	553		300	525691	SLG-S-12-500
	600										5	733	653		347.4	525692	SLG-S-12-600
	700										6	833	753		394.8	525693	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	525694	SLG-S-18-100
	200										1	371	291		336.2	525695	SLG-S-18-200
	300										2	471	391		426.8	525696	SLG-S-18-300
	400										3	571	491		517.4	525697	SLG-S-18-400
	500										4	671	591		608	525698	SLG-S-18-500
	600										5	771	691		698.6	525699	SLG-S-18-600
	700										6	871	791		789.2	525700	SLG-S-18-700
	800										7	971	891		879.8	525701	SLG-S-18-800
	900										8	1071	991		970.4	525702	SLG-S-18-900

Accessories

Rubber buffer SLG



Ordering data		Part no.	Type
For ø	Weight [g]		
8, 12	1.5	379802	SLG-8/12
18	6	381219	SLG-18

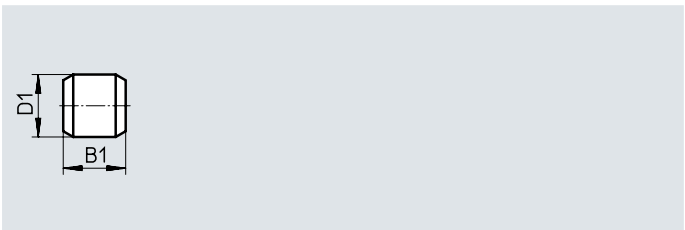
Shock absorber YSRG



Ordering data		Part no.	Type
For ø	Weight [g]		
8, 12	7	381042	YSRG-5-5-C
18	27	384581	YSRG-8-8-C

Centring pin ZBS

Material:
Stainless steel



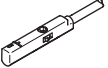
Dimensions and ordering data		Weight	Part no.	Type	PU ¹⁾
For ø	B1				
[mm]	-0.2				
8, 12	5	1	525273	ZBS-2	10
18	5	1	150928	ZBS-5	10

1) Packaging unit

Accessories

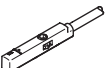
Ordering data – Proximity switch for C-slot, magneto-resistive

Datasheets → Internet: smt

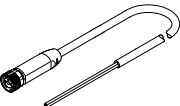
	Type of mounting	Switching output	Electrical connection, outlet direction of connection	Cable length [m]	Part no.	Type
N/O						
	Inserted in the slot from above	PNP	Cable, 3-core, lengthways	2.5	551373	SMT-10M-PS-24V-E-2.5-L-OE
			Plug M8x1, 3-pin, lengthways	0.3	551375	SMT-10M-PS-24V-E-0.3-L-M8D
			Plug M8x1, 3-pin, crossways	0.3	551376	SMT-10M-PS-24V-E-0.3-Q-M8D

Ordering data – Proximity switch for C-slot, magnetic reed

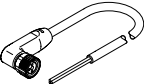
Datasheets → Internet: sme

	Type of mounting	Switching output	Electrical connection, outlet direction of connection	Cable length [m]	Part no.	Type
N/O						
	Inserted in the slot from above	Contacting	Plug M8x1, 3-pin, lengthways	0.3	551367	SME-10M-DS-24V-E-0.3-L-M8D
			Cable, 3-core, lengthways	2.5	551365	SME-10M-DS-24V-E-2.5-L-OE
			Cable, 2-core, lengthways	2.5	551369	SME-10M-ZS-24V-E-2.5-L-OE

Connecting cables NEBA, straight

	Electrical connection 1, connection technology	Electrical connection 2, connection technology	Electrical connection 2, number of pins/cores	Cable length	Part no.	Type
	M8x1 A-coded to EN 61076-2-104	Open end	3	2.5 m	8078223	NEBA-M8G3-U-2.5-N-LE3
				5 m	8078224	NEBA-M8G3-U-5-N-LE3

Connecting cables NEBA, angled

	Electrical connection 1, connection technology	Electrical connection 2, connection technology	Electrical connection 2, number of pins/cores	Cable length	Part no.	Type
	M8x1 A-coded to EN 61076-2-104	Open end	3	2.5 m	8078230	NEBA-M8W3-U-2.5-N-LE3
				5 m	8078231	NEBA-M8W3-U-5-N-LE3

Ordering data – One-way flow control valves

Datasheets → Internet: grla

	Connection Thread	For tubing O.D.	Material	Part no.	Type
	M3	3	Metal design	175041	GRLA-M3-QS-3
	M5	4		193138	GRLA-M5-QS-4-D