

Linear drives SLM, with guided slide

FESTO



Linear drives SLM, with guided slide

Key features

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Version

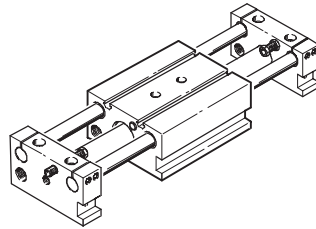
The linear drive SLM is a combination of a slide unit and a rodless linear drive. The drive moves the slide. The

transmission of movement is accomplished via a magnetic coupling. The modular system allows

for individualised end-position cushioning and end-position sensing solutions.

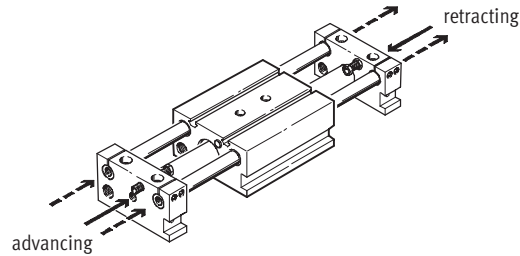
Basic unit

SLM-...-G



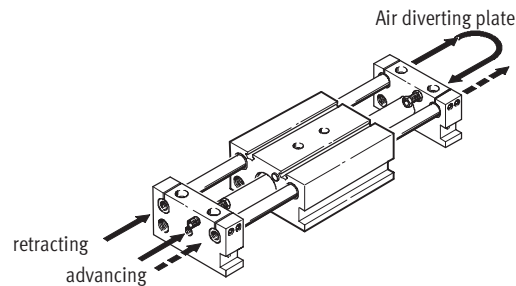
SLM-...-GL

with hollow guide rods



SLM-...-GU

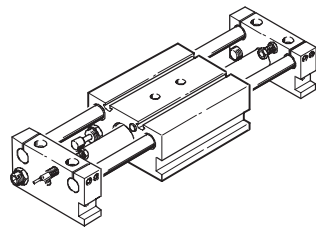
with hollow guide rods, air diverting plate and supply port on one side



Standard unit

SLM-...-S

with two self-adjusting shock absorbers and two inductive proximity sensors with PNP output



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Key features

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Multi-axis combinations

The linear drive SLM can be combined with the linear unit SLE to produce a range of 2-axis or 3-axis systems.

→ www.festo.com

These multi-axis configurations are formed by screwing the units together, either directly or using an adapter plate. A linear unit SLE can be combined with another linear unit SLE using either method, however direct

mounting is almost always required for a linear drive SLM and linear unit SLE. The centring pins and sleeves required to secure the units together are included in the scope of delivery.

Linear unit SLE

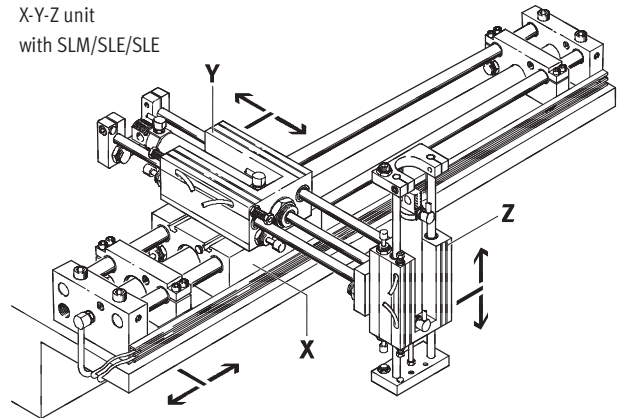
→ Internet: [sle](http://www.festo.com/catalogue/...)

X	Y	Z
2 axes		
SLM-12	SLE-10	–
SLM-16 ¹⁾	SLE-10	–
SLM-20	SLE-16	–
SLM-25 ²⁾	SLE-16	–
SLM-32	SLE-20 or SLE-25	–
SLM-40	SLE-32	–
3 axes		
SLM-20	SLE-16	SLE-10
SLM-25 ²⁾	SLE-16	SLE-10
SLM-32	SLE-20 or SLE-25	SLE-16
SLM-40	SLE-32	SLE-20 or SLE-25

1) An adapter plate SLEP-10 (→ 16) is required for mounting (direct mounting is not possible).

2) An adapter plate SLEP-16 (→ 16) is required for mounting (direct mounting is not possible).

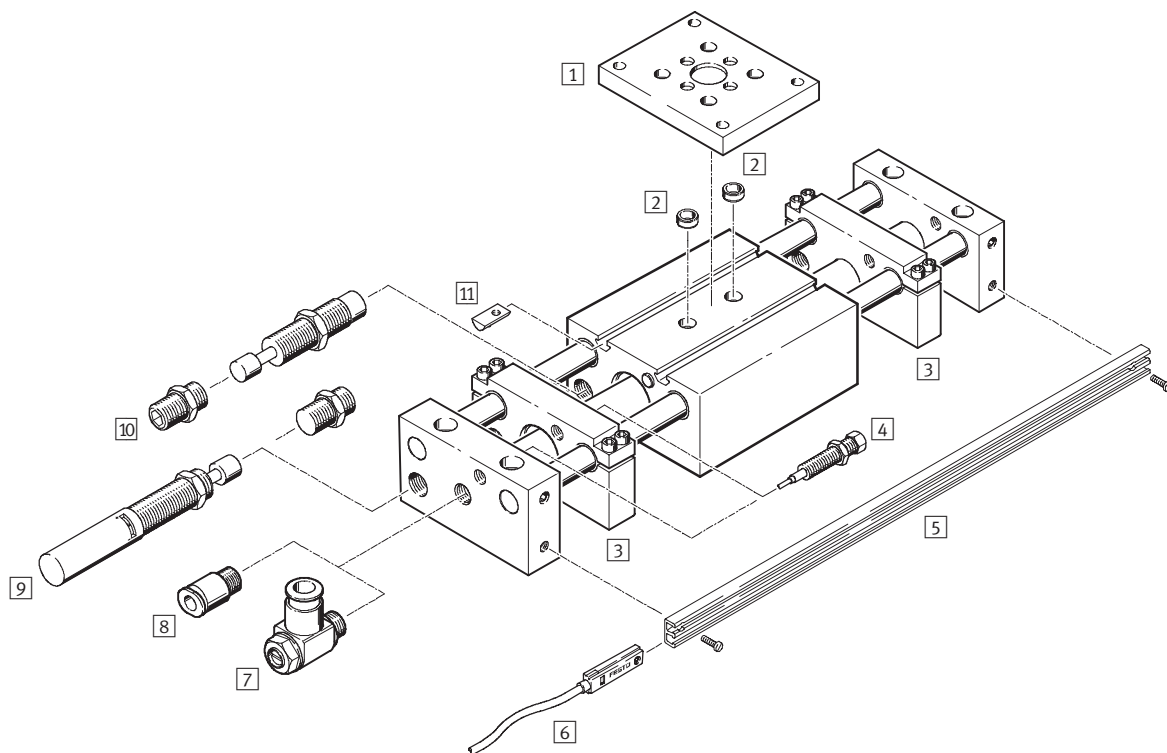
X-Y-Z unit
with SLM/SLE/SLE



Linear drives SLM, with guided slide

Peripherals overview

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Linear drives SLM, with guided slide

Peripherals overview

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Accessories		
	Brief description	→ Page/Internet
1 Adapter plate SLEP	For multi-axis combinations	16
2 Centring sleeve ZBH	For centring loads and attachments on the slide	17
3 Stop plate SLM-...-KF-A	For variable stroke adjustment	17
4 Switching stop with proximity sensor SL-...-SIE-PS/SL-...-SIE-NS	Can be integrated in the end or stop plate	16
5 Mounting rail SLZS/SLMS	For mounting proximity sensors SME/SMT-8	17
6 Proximity sensor SME/SMT-8	Can be integrated in the mounting rail SLZS/SLMS	17
7 One-way flow control valve GRLA	For speed regulation	18
8 Push-in fitting QS	For connecting compressed air tubing with standard O.D.	quick star
9 Shock absorber kit, adjustable SLZ-...-KF-A	For slowing higher speeds to a stop	15
10 Shock absorber kit, self-adjusting SLZ-...-YSR-C	For slowing higher speeds to a stop	15
11 Slot nut NST	For mounting loads and attachments on the slide	17

Linear drives SLM, with guided slide

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Type code

SLM – 25 – 125 – KF – A – G – CV – CH – PV – PH – HV – HH – E – 4l

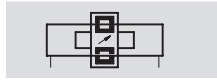
Type	
Double-acting	
SLM	Linear drive
Piston Ø [mm]	
25	
Stroke [mm]	
125	
Guide	
KF	Recirculating ball bearing guide
Position sensing	
A	For proximity sensing
Version	
Standard unit	
S	= G – CV – CH – PV – PH
Basic unit	
G	Pneumatic drive
GL	Pneumatic drive and hollow guide rods
GU	Pneumatic drive, hollow guide rods and air diverting plate
Shock absorber kit at front	
CV	Self-adjusting
YV	Adjustable
Shock absorber kit at rear	
CH	Self-adjusting
YH	Adjustable
Switching stop at front	
PV	With proximity sensor, PNP
NV	With proximity sensor, NPN
Switching stop at rear	
PH	With proximity sensor, PNP
NH	With proximity sensor, NPN
Stroke adjustment at front	
HV	Stop plate at front
Stroke adjustment at rear	
HH	Stop plate at rear
Mounting rail	
E	Mounting rail
Accessories	
...I	Slot nut, 1 ... 10 pieces

Linear drives SLM, with guided slide

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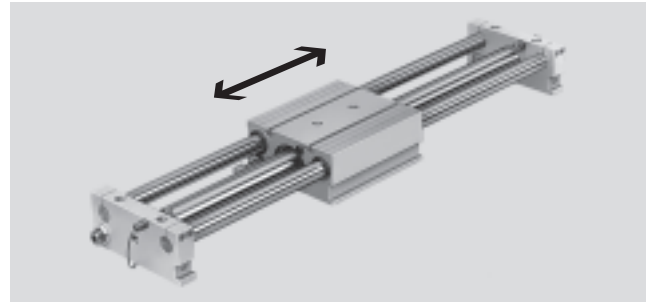
Technical data

Function



- $\varnothing$ - Diameter
12 ... 40 mm
- I - Stroke length
10 ... 1500 mm

www.festo.com/en/Spare_parts_service



General technical data						
Piston ∅	12	16	20	25	32	40
Stroke [mm]	10 ... 500	10 ... 800		10 ... 1500		
Pneumatic connection	M5		G½		G¾	
Mode of operation	Double-acting					
Constructional design	Slide unit					
	Rodless linear drive					
End-position cushioning via shock absorber	Self-adjusting at both ends					
	–	–	Adjustable at both ends			
Position sensing	For proximity sensing					
Type of mounting	Via through-holes					
	Via female thread					
Mounting position	Any					
Protection against torsion/guide	Guide rods with slide/ball bearing guide					

Operating and environmental conditions						
Piston $\varnothing$	12	16	20	25	32	40
Operating medium	Filtered compressed air, lubricated or unlubricated					
Operating pressure [bar]	≤ 7					
Ambient temperature ¹⁾ [°C]	–20 ... +60					

1) Note operating range of proximity sensors.

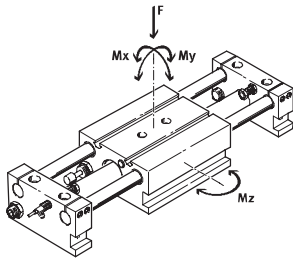
Forces [N]						
Piston $\varnothing$	12	16	20	25	32	40
Theoretical force at 6 bar, advancing	68	121	188	295	483	754
Theoretical force at 6 bar, retracting	68	121	188	295	483	754
Breakaway force of the magnetic coupling	100	160	270	400	680	1050

Linear drives SLM, with guided slide

Technical data

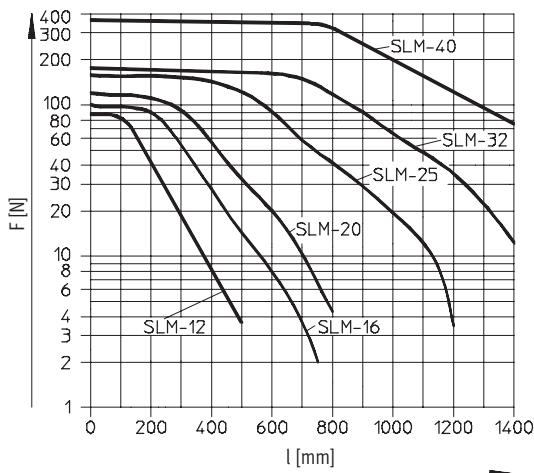
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Permissible dynamic load

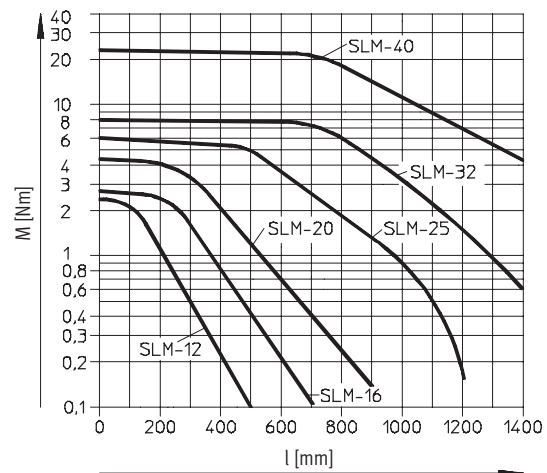


F = Load
M ≥ M_x
M ≥ M_y
M ≥ M_z

Permissible effective load F as a function of the stroke l



Permissible torque M as a function of the stroke l



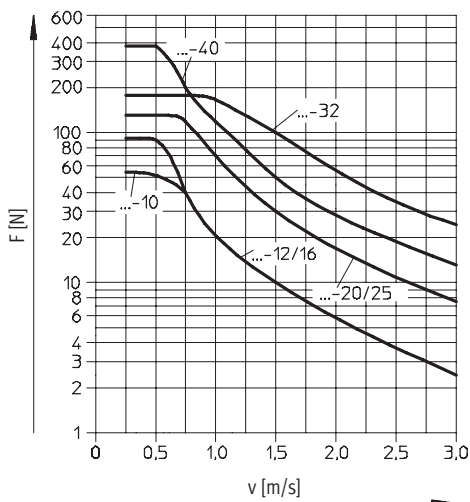
Permissible shock absorber load F as a function of the impact velocity v

with horizontal installation

$$F \geq m_L \times g$$

$$g = 9.81 \text{ N/mm}^2$$

$$m_L = \text{Load [kg]}$$



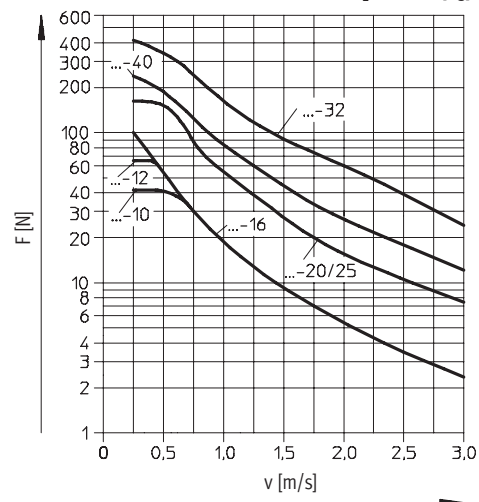
with vertical installation

$$F \geq (m_L + m_E) \times g$$

$$g = 9.81 \text{ N/mm}^2$$

$$m_E = \text{Moving load (dead weight) [kg]}$$

$$m_L = \text{Load [kg]}$$



Linear drives SLM, with guided slide

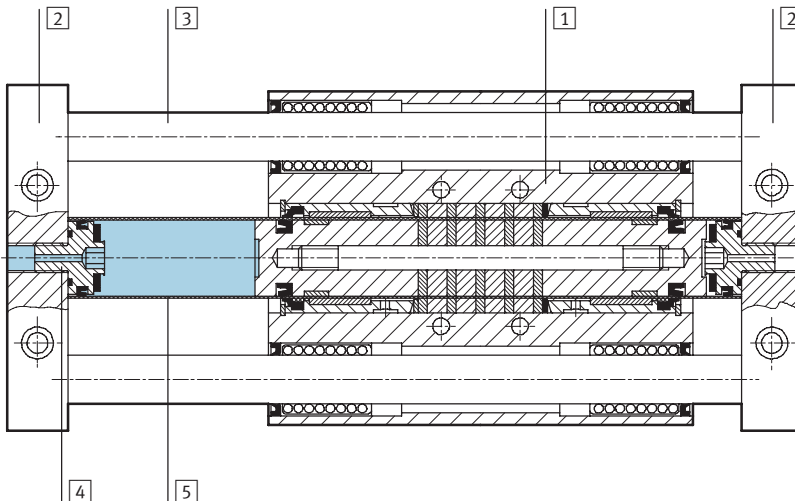
Technical data

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Weights [g]						
Piston Ø	12	16	20	25	32	40
Basic weight with 0 mm stroke	1110	1730	2620	3800	6400	9550
Additional weight per 10 mm stroke	10	15	21	36	55	85
Moving load	620	1080	1400	2150	3150	5080

Materials

Sectional view



Linear drive	
1 Slide	Wrought aluminium alloy
2 End plate	Wrought aluminium alloy
3 Guide rod	Steel
4 Cylinder barrel attachment	Wrought aluminium alloy
5 Cylinder barrel	High-alloy stainless steel
– Stop plate	Wrought aluminium alloy
– Seals	Nitrile rubber

Linear drives SLM, with guided slide

Technical data

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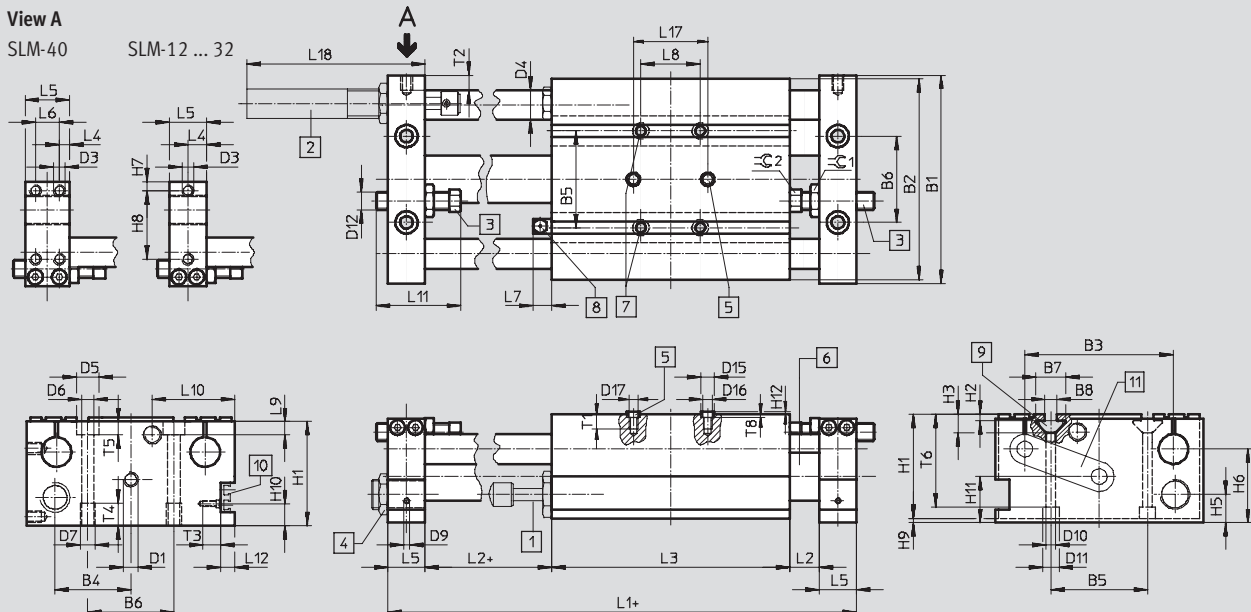
Dimensions

Download CAD Data → www.festo.com/us/cad

View A

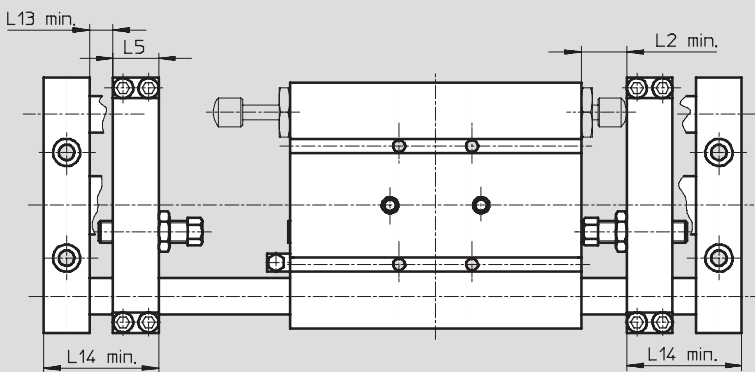
SLM-40

SLM-12 ... 32



- | | | | |
|---|--|--------------------------------|---|
| 1 Self-adjusting shock absorber, for front and rear mounting | 3 Switching stop with proximity sensor, PNP/NPN, for front and rear mounting | 6 Pneumatic linear drive | 10 Mounting rail for proximity sensor SME/SMT-8 |
| 2 Adjustable shock absorber, for front and rear mounting on the end plate | 4 Shock absorber stop | 7 Mounting thread/through-hole | 11 Air diverting plate |
| | 5 Centring sleeves (2 included in scope of delivery) | 8 Lubrication nipple | + = plus stroke length |
| | | 9 Slot nut | |

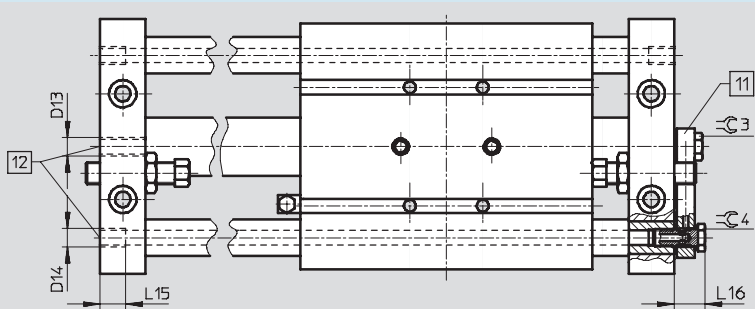
with stop plate



Note

In the case of stroke settings with stop plates front and/or rear, the stroke is reduced by L5 and L13 min at each end.

with hollow guide rod and air diverting plate



- | |
|------------------------|
| 11 Air diverting plate |
| 12 Supply port |

Linear drives SLM, with guided slide

Technical data

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Ø [mm]	B1	B2	B3 ±0.03	B4	B5 ±0.2	B6 ±0.2	B7	B8	D1	D3	D4 Ø h6	D5 Ø	D6 Ø	D7	D9	D10 Ø
12	74	71	52	26.5	26	35	11.6	5	M5	M5	8	10	5.3	M6	M4	5.3
16	84	80	58	31	32	40	11.6	5	M5	M5	10	10	5.3	M6	M4	5.5
20	100	96	72	36.5	40	47	11.6	5	G $\frac{1}{8}$	M6	12	11	6.8	M8	M4	5.5
25	114	110	80	39.5	45	48	11.6	5	G $\frac{1}{8}$	M6	16	10.5	6.8	M8	M4	5.5
32	140	135	100	51	65	58	20	8	G $\frac{1}{8}$	M8	20	15	8.5	M10	M4	6.6
40	166	160	118	63	75	78	20	8	G $\frac{1}{4}$	M6	25	15	8.5	M10	M4	6.6

Ø [mm]	D11 Ø	D12	D13	D14	D15 Ø H7	D16 Ø	D17	H1	H2	H3	H5	H6	H7	H8 ±0.2	H9
12	9	M6x0.75	M5	–	9	6.4	M6	38	1.8	6.4	11.5	27	3.5	31	2
16	10	M6x0.75	M5	M5	9	6.4	M6	40	1.8	6.4	12	28.5	4.5	31	2
20	10	M8x1	G $\frac{1}{8}$	M5	9	6.4	M6	50	1.8	6.4	16	36	5	40	2
25	10	M8x1	G $\frac{1}{8}$	G $\frac{1}{8}$	9	6.4	M6	55	1.8	6.4	14	36.5	5	34	2
32	11	M12x1	G $\frac{1}{8}$	G $\frac{1}{8}$	9	6.4	M6	70	4.5	12.5	19	49.5	6	46	3
40	11	M12x1	G $\frac{1}{4}$	G $\frac{1}{4}$	9	6.4	M6	75	4.5	12.5	19	51	5.5	51.5	3

Ø [mm]	H10	H11	H12	L1	L2	L3	L4	L5	L6	L7	L8 ±0.2	L9	L10	L11	L12	L13
12	16	15.5	1.9	139	12	85	7.5	15	–	11	19	6.5	37	33	–	7
16	16	19	1.9	154	12	100	7.5	15	–	11	32	6	31.5	33	–	7
20	16	22	1.9	192	16	120	10	20	–	12.5	26	8	44	45	–	10
25	16	25	1.9	212	16	140	10	20	–	12.5	26	8	45	45	–	10
32	14.8	31	1.9	250	20	160	12.5	25	–	12.5	40	9	55.5	57	9.5	13
40	15.8	36.5	1.9	270	20	180	6.5	25	12	12.5	50	9	61.5	57	10	13

Ø [mm]	L14	L15	L16	L17 ¹⁾	L18	T1	T2	T3	T4	T5	T6	T8 +0.2	≈C1	≈C2	≈C3	≈C4
12	37	–	–	40	–	10	7	12	10	5.7	30.5	2.1	10	8	–	–
16	37	8	12.5	40	–	10	6.5	12	10	5.7	34.3	2.1	10	8	13	–
20	50	8	19.5	40	97	10	9	12	12	6.8	44	2.1	13	11	13	8
25	50	10	19.5	40	97	10	9	12	12	6.8	49.3	2.1	13	11	13	–
32	63	14	15.5	40	115	10	10	12	15	9	62.5	2.1	19	13	13	–
40	63	15	17	40	115	10	10	12	16	9	61	2.1	19	13	17	–

1) Tolerance for centring hole: ±0.03 mm
Tolerance for thread: ±0.1 mm

Linear drives SLM, with guided slide

Ordering data – Modular products

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Mandatory data →						
Module No.	Drive function	Size	Stroke	Guide	Position sensing	Basic unit
32 781	SLM	12	10 ... 1500	KF	A	G
32 782		16				GL
32 783		20				GU
32 784		25				
32 785		32				
32 786		40				
Ordering example						
32 784	SLM	- 25	- 900	- KF	- A	- GU

Ordering table										
Size	12	16	20	25	32	40	Condition s	Code		Enter code
M Module No.	32 781	32 782	32 783	32 784	32 785	32 786				
Drive function	Linear unit							SLM		SLM
Size [mm]	12	16	20	25	32	40		-...		
Stroke [mm]	10 ... 500	10 ... 800		10 ... 1500				-...		
Guide	Via ball bearings							-KF		-KF
Position sensing	For proximity sensing							-A		-A
Basic unit	Linear unit with pneumatic drive							-G		
	-	Linear unit with pneumatic drive and hollow guide rods						-GL		
	-	Linear unit with pneumatic drive, hollow guide rods and air diverting plate						-GU		

Transfer order code

SLM - - - KF - A - -

Linear drives SLM, with guided slide

Ordering data – Modular products

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Options							
Shock absorber at front	Shock absorber at rear	Sensor at front	Sensor at rear	Stroke adjustment at front	Stroke adjustment at rear	Mounting rail	Slot nut
CV YV	CH YH	PV NV	PH NH	HV	HH	E	...I
CV	CH	PV	PH	HV	HH	E	4I

Ordering table										
Size	12	16	20	25	32	40	Condition s	Code	Enter code	
↓ [0]	Shock absorber	at front	Self-adjusting shock absorber, with stop at front					-CV		
			Adjustable shock absorber, with stop at front					-YV		
		at rear	Self-adjusting shock absorber, with stop at rear					-CH		
			Adjustable shock absorber, with stop at rear					-YH		
	Sensor (bonded)	at front	Inductive sensor with 2.5 m cable, PNP, with stop sleeve at front					-PV		
			Inductive sensor with 2.5 m cable, NPN, with stop sleeve at front					-NV		
		at rear	Inductive sensor with 2.5 m cable, PNP, with stop sleeve at rear					-PH		
			Inductive sensor with 2.5 m cable, NPN, with stop sleeve at rear					-NH		
	Stroke adjustment	at front	Stop plate at front					[1]		-HV
		at rear	Stop plate at rear					[2]		-HH
	Mounting rail	Mounting rail								-E
	Slot nut	1 ... 10								-...I

- 1 HV Not in combination with YV
2 HH Not in combination with YH

Transfer order code

	-		-		-		-		-	
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Linear drives SLM, with guided slide

Ordering data – Modular products, package solution

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M Mandatory data						
Module No.	Drive function	Size	Stroke	Guide	Position sensing	Standard unit
32 781	SLM	12	10 ... 1500	KF	A	S
32 782		16				
32 783		20				
32 784		25				
32 785		32				
32 786		40				
Ordering example						
32 782	SLM	- 16	- 750	- KF	- A	- S

Ordering table										
Size	12	16	20	25	32	40	Condition s	Code		Enter code
M Module No.	32 781	32 782	32 783	32 784	32 785	32 786				
Drive function	Linear unit							SLM		SLM
Size [mm]	12	16	20	25	32	40		-...		
Stroke [mm]	10 ... 500	10 ... 800		10 ... 1500				-...		
Guide	Via ball bearings							-KF		-KF
Position sensing	For proximity sensing							-A		-A
Standard unit	Package solution S = G-CV-CH-PV-PH							-S		-S

Transfer order code

	SLM	-		-	KF	-	A	-	S
--	-----	---	--	---	----	---	---	---	---

Linear drives SLM, with guided slide

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Accessories

Shock absorber kit

SLZ-...-YSR-C, self-adjusting

(order code CV, CH)

Material:

YSR-8-8-C: Nickel-plated brass

YSR-12-12-C, YSR-16-20-C:

Galvanised steel

Free of copper, PTFE and silicone



Ordering data			
For Ø [mm]	Including shock absorber Technical data → Internet: ysr	Part No.	Type
12, 16	YSR-8-8-C	115 315	SLZ-16-YSR-C
20, 25	YSR-12-12-C	115 316	SLZ-25-YSR-C
32, 40	YSR-16-20-C	115 317	SLZ-32-YSR-C

Shock absorber kit

SLZ-...-KF-A, adjustable

(order code YV, YH)

Material:

Galvanised steel



Ordering data			
For Ø [mm]	Including shock absorber Technical data → Internet: dysr	Part No.	Type
20, 25	DYSR-12-12-Y5	114 032	SLZ-25-KF-A
32, 40	DYSR-16-20-Y5	114 033	SLZ-32-KF-A

Linear drives SLM, with guided slide

Accessories

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Switching stop SL-...-SIE-PS

(order code PV, PH)

Kit with inductive proximity sensor

PNP

Switching stop SL-...-SIE-NS

(order code NV, NH)

Kit with inductive proximity sensor

NPN

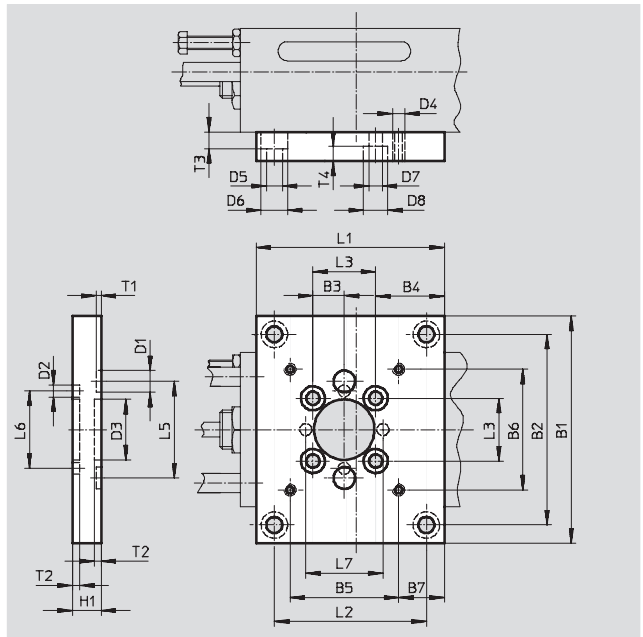
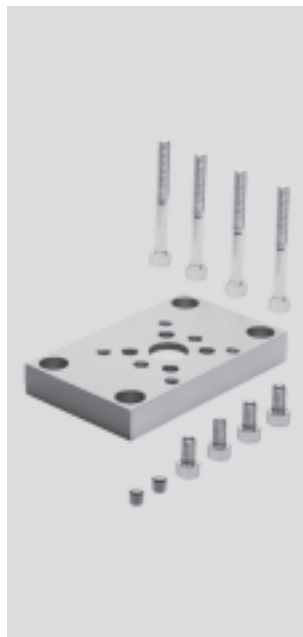


Ordering data				
For Ø [mm]	Switch output	Including proximity sensor Technical data → Internet: sien	Part No.	Type
12, 16	PNP	SIEN-4B-PS-K-L	116 251	SL-10/16-SIE-PS
	NPN	SIEN-4B-NS-K-L	116 252	SL-10/16-SIE-NS
20, 25	PNP	SIEN-4B-PS-K-L	116 253	SL-20/25-SIE-PS
	NPN	SIEN-4B-NS-K-L	116 254	SL-20/25-SIE-NS
32, 40	PNP	SIEN-6,5B-PS-K-L	117 525	SL-32/50-SIE-PS
	NPN	SIEN-6,5B-NS-K-L	117 526	SL-32/50-SIE-NS

Adapter plate SLEP

Material:

Wrought aluminium alloy



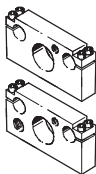
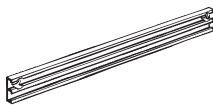
Dimensions and ordering data																		
For Ø [mm]	B1	B2	B3	B4	B5	B6	B7	D1 Ø H7	D2 Ø H7	D3 Ø G7	D4	D5 Ø	D6 Ø	D7 Ø	D8 Ø	H1	L1	L2
16	82	68	9.5	20	32	32	13.5	9	5	14	M5	5.5	10	5.5	10	12	50	36
25	94	79	13	23.5	45	26	14	9	5	25	M5	6.6	11	5.5	10	12	73	58

For Ø [mm]	L3	L5	L6	L7	T1	T2	T3	T4	Weight [g]	Part No.	Type
16	19	40	28	—	2.1	3	5.7	6.7	122	150 909	SLEP-10
25	26	40	32	32	2.1	3	6.8	6.7	205	150 910	SLEP-16

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Accessories

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Ordering data – Accessories						
	For Ø [mm]	Material	Order code	Part No.	Type	PU ¹⁾
Stop plate SLM-...-KF-A						
	12	Wrought aluminium alloy	HV, HH	119 527	SLM-12-...-KF-A	1
	16			119 528	SLM-16-...-KF-A	1
	20			119 529	SLM-20-...-KF-A	1
	25			119 530	SLM-25-...-KF-A	1
	32			119 531	SLM-32-...-KF-A	1
	40			119 532	SLM-40-...-KF-A	1
Mounting rail SLZS/SLMS for proximity sensor						
	12	Wrought aluminium alloy	E	150 916	SLZS-16-...-...	1
	16			152 744	SLMS-16-...-...	1
	20			150 917	SLZS-25-...-...	1
	25			152 745	SLMS-25-...-...	1
	32			150 918	SLZS-32-...-...	1
	40			150 919	SLZS-40-...-...	1
Slot nut NST						
	12 ... 25	Non-alloyed tempered steel	I	150 914	NST-5-M5	1
	32, 40	Free of copper, PTFE and silicone		150 915	NST-8-M6	1
Centring sleeve ZBH						
	16 ... 40	Stainless steel Free of copper, PTFE and silicone	–	150 927	ZBH-9	10

1) Packaging unit quantity

Ordering data – Proximity sensors for T-slot, magnetic reed					Technical data → Internet: smt	
	Type of mounting	Switch output	Electrical connection	Cable length [m]	Part No.	Type
N/O contact						
	Insertable in the slot from above, flush with cylinder profile	Contacting	Cable, 3-wire	2.5	543 862	SME-8M-DS-24V-K-2,5-OE
				5.0	543 863	SME-8M-DS-24V-K-5,0-OE
			Cable, 3-wire	2.5	543 872	SME-8M-ZS-24V-K-2,5-OE
			Plug M8x1, 3-pin	0.3	543 861	SME-8M-DS-24V-K-0,3-M8D
	Insertable in the slot lengthwise, flush with the cylinder profile	Contacting	Cable, 3-wire	2.5	150 855	SME-8-K-LED-24
			Plug M8x1, 3-pin	0.3	150 857	SME-8-S-LED-24
N/C contact						
	Insertable in the slot lengthwise, flush with the cylinder profile	Contacting	Cable, 3-wire	7.5	160 251	SME-8-O-K-LED-24

Linear drives SLM, with guided slide

Accessories

FESTO

Ordering data – Proximity sensors for T-slot, magneto-resistive					Technical data → Internet: sme	
	Type of mounting	Switch output	Electrical connection	Cable length [m]	Part No.	Type
N/O contact						
	Insertable in the slot from above, flush with cylinder profile	PNP	Cable, 3-wire	2.5	543 867	SMT-8M-PS-24V-K-2,5-OE
			Plug M8x1, 3-pin	0.3	543 866	SMT-8M-PS-24V-K-0,3-M8D
			Plug M12x1, 3-pin	0.3	543 869	SMT-8M-PS-24V-K-0,3-M12
		NPN	Cable, 3-wire	2.5	543 870	SMT-8M-NS-24V-K-2,5-OE
			Plug M8x1, 3-pin	0.3	543 871	SMT-8M-NS-24V-K-0,3-M8D
	Insertable in the slot lengthwise, flush with the cylinder profile	PNP	Cable, 3-wire	2.5	175 436	SMT-8-PS-K-LED-24-B
			Plug M8x1, 3-pin	0.3	175 484	SMT-8-PS-S-LED-24-B
N/C contact						
	Insertable in the slot from above, flush with cylinder profile	PNP	Cable, 3-wire	7.5	543 873	SMT-8M-PO-24V-K7,5-OE

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
	Straight socket, M12x1, 5-pin	Cable, open end, 3-wire	2.5	541 363	NEBU-M12G5-K-2.5-LE3
			5	541 364	NEBU-M12G5-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
	Angled socket, M12x1, 5-pin	Cable, open end, 3-wire	2.5	541 367	NEBU-M12W5-K-2.5-LE3
			5	541 370	NEBU-M12W5-K-5-LE3

Ordering data – Slot cover for T-slot					Part No.	Type
	Mounting	Length [m]				
	Insertable from above	2x 0.5				151 680 ABP-5-S

Ordering data – One-way flow control valves				Technical data → Internet: grla	
	Connection		Material	Part No.	Type
	Thread	For tubing OD			
	M5	3	Metal design	193 137	GRLA-M5-QS-3-D
		4		193 138	GRLA-M5-QS-4-D
		6		193 139	GRLA-M5-QS-6-D
	G1/8	3		193 142	GRLA-1/8-QS-3-D
		4		193 143	GRLA-1/8-QS-4-D
		6		193 144	GRLA-1/8-QS-6-D
		8		193 145	GRLA-1/8-QS-8-D
		10		193 146	GRLA-1/8-QS-10-D
	G1/4	6		193 147	GRLA-1/4-QS-6-D
		8		193 148	GRLA-1/4-QS-8-D
		10		193 149	GRLA-1/4-QS-10-D
		12		193 150	GRLA-1/4-QS-12-D

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