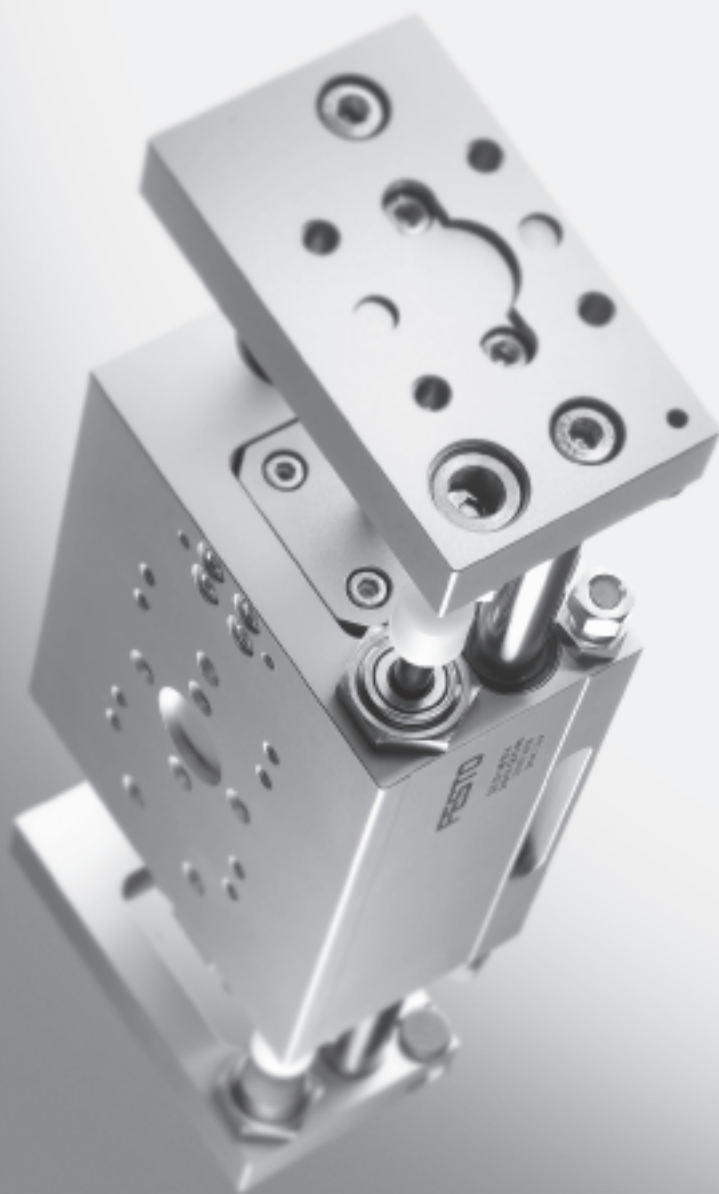




- Multi-axis and drive combinations
- With guide
- Recirculating ball bearing guide
- Individualised position sensing and end-position cushioning

Linear units SLE

Key features

FESTO

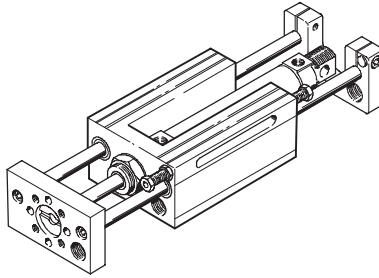
Version

The linear unit SLE is a combination of a guide unit and a standard cylinder. The cylinder moves a flange plate.

The modular system allows for individualised end-position cushioning and end-position sensing solutions.

Basic unit

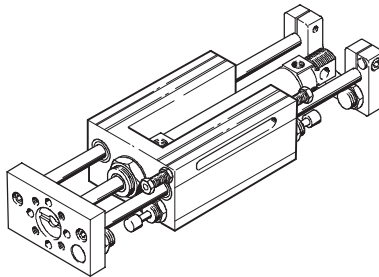
SLE-...-G



Standard unit

SLE-...-S

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



Linear units SLE

Key features

FESTO

Multi-axis combinations

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

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.

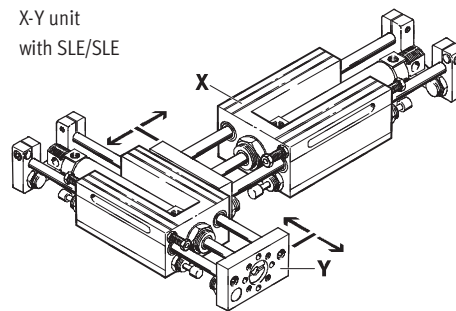
The centring pins and sleeves required to secure the units together are included in the scope of delivery.

Linear drive SLM
→ Internet: slm

with linear unit SLE

X	Y	Z
2 axes		
SLE-16	SLE-10	–
SLE-20	SLE-16	–
SLE-25	SLE-16	–
SLE-32	SLE-20 or SLE-25	–
SLE-40	SLE-32	–
SLE-50	SLE-40	–
3 axes		
SLE-20	SLE-16	SLE-10
SLE-25	SLE-16	SLE-10
SLE-32	SLE-20 or SLE-25	SLE-16
SLE-40	SLE-32	SLE-20 or SLE-25
SLE-50	SLE-40	SLE-32

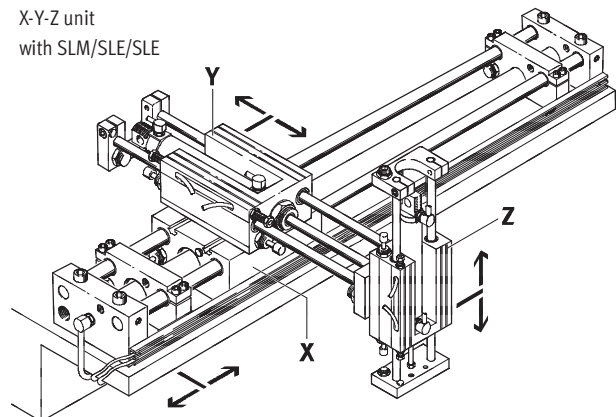
X-Y unit
with SLE/SLE



with linear drive SLM

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

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

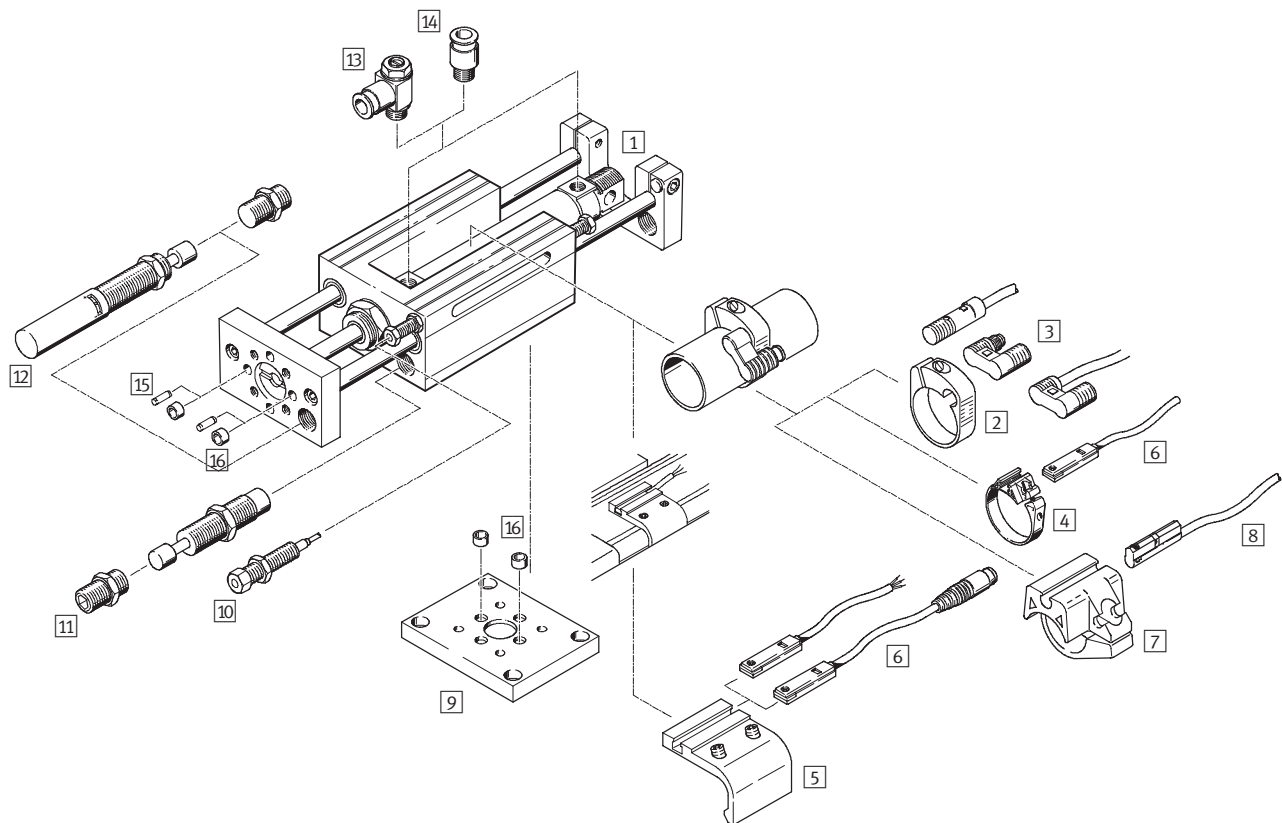


- 1) A mounting plate SLEP-10 (→ 17) is required for mounting (direct mounting is not possible).
2) A mounting plate SLEP-16 (→ 17) is required for mounting (direct mounting is not possible).

Linear units SLE

Peripherals overview

FESTO



Linear units SLE

Peripherals overview

FESTO

Accessories					
	Brief description	Piston Ø 10 ... 20 mm	Piston Ø 25 mm	Piston Ø 32 ... 50 mm	→ Page/Internet
1	Standard cylinder DSNU	■	■	–	19
	Standard cylinder DNC	–	–	■	19
2	Mounting kit SMBR	■	■	–	19
3	Proximity sensor SMEO/SMTO-4U	■	■	–	19
4	Mounting kit SMBR-8	■	■	–	20
5	Mounting kit SMB-8-FENG	–	–	■	20
6	Proximity sensor SME/SMT-8	■	■	■	20
7	Mounting kit SMBR-10	■	■	–	21
8	Proximity sensor SME/SMT-10	■	■	–	21
9	Adapter plate SLEP	■	■	■	17
10	Switching stop with proximity sensor SL-...-SIE-PS/SL-...-SIE-NS	■	■	■	17
11	Shock absorber kit, self-adjusting SLE-...-YSR-C	■	■	■	16
12	Shock absorber kit, adjustable SLZ-...-KF-A	■ Ø 20	■	■	16
13	One-way flow control valve GRLA	■	■	■	22
14	Push-in fitting QS	■	■	■	quick star
15	Centring pin ZBS	■	–	–	18
16	Centring sleeve ZBH	–	■	■	18

Linear units SLE

Type codes

FESTO

		SLE	–	16	–	100	–	KF	–	A	–	G	–	CV	–	CH	–	PV	–	PH																			
Type																																							
Double-acting																																							
SLE	Linear unit																																						
Piston Ø [mm]																																							
Stroke [mm]																																							
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																																						
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																																						

Linear units SLE

Technical data

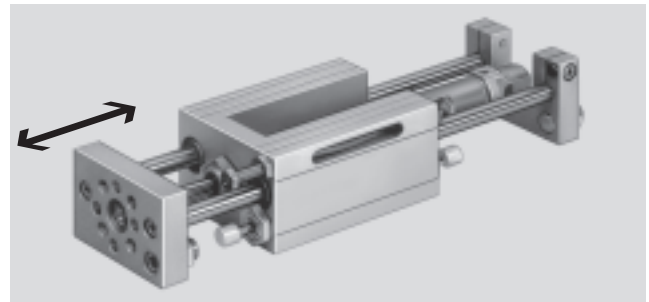
FESTO

Function



www.festo.com

- Ø - Diameter
10 ... 50 mm
- I - Stroke length
10 ... 500 mm



General technical data							
Piston ∅	10	16	20	25	32	40	50
Stroke [mm]	10 ... 100	10 ... 200	10 ... 320		10 ... 500		
Pneumatic connection	M5		G½			G¾	
Mode of operation	Double-acting						
Constructional design	Linear unit						
	Standard cylinder						
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 yoke/ball bearing guide						

Operating and environmental conditions							
Piston Ø	10	16	20	25	32	40	50
Operating medium	Filtered compressed air, lubricated or unlubricated						
Operating pressure [bar]	2.5 ... 10				1.5 ... 12		
Ambient temperature ¹⁾ [°C]	−20 ... +80						

1) Note operating range of proximity sensors.

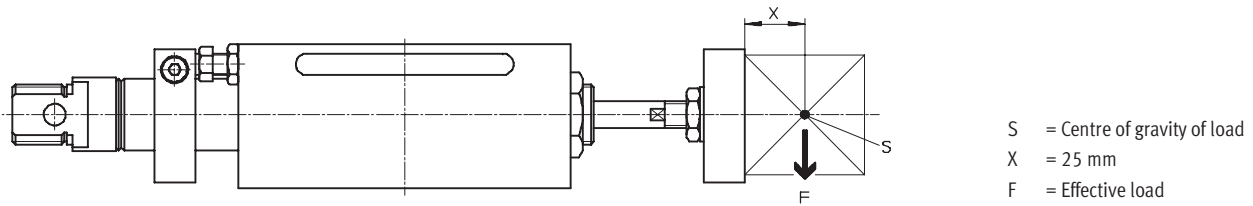
Forces [N]							
Piston Ø	10	16	20	25	32	40	50
Theoretical force at 6 bar, advancing	47	121	188	295	483	754	1178
Theoretical force at 6 bar, retracting	40	104	158	247	415	633	990

Linear units SLE

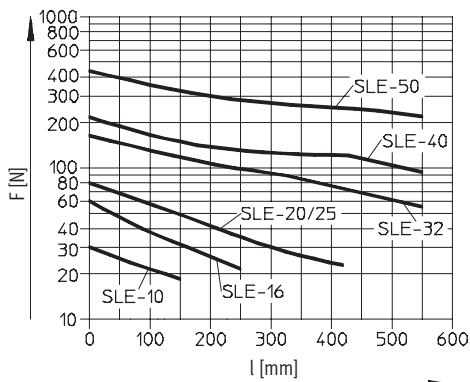
Technical data

FESTO

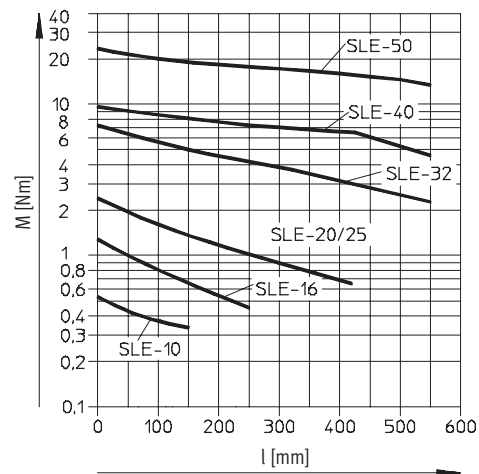
Permissible dynamic load



Permissible effective load F as a function of the stroke l



Permissible torque M as a function of the stroke l



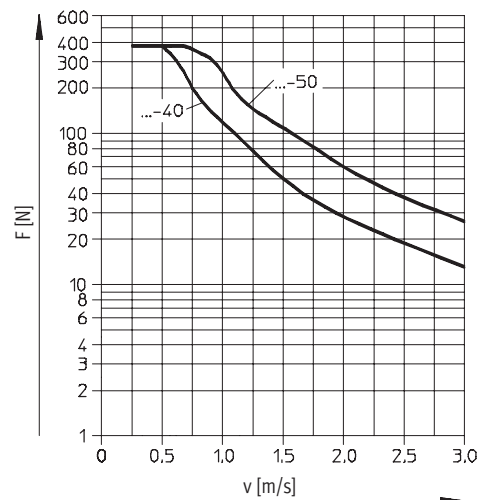
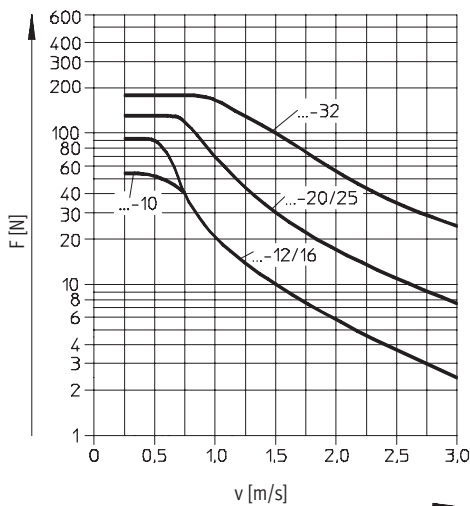
Permissible shock absorber load F as a function of the impact velocity v

with horizontal installation

$$F \geq m_L \times g$$

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

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



Linear units SLE

Technical data

FESTO

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

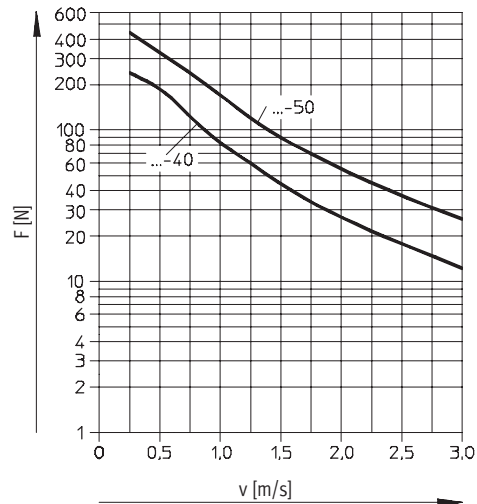
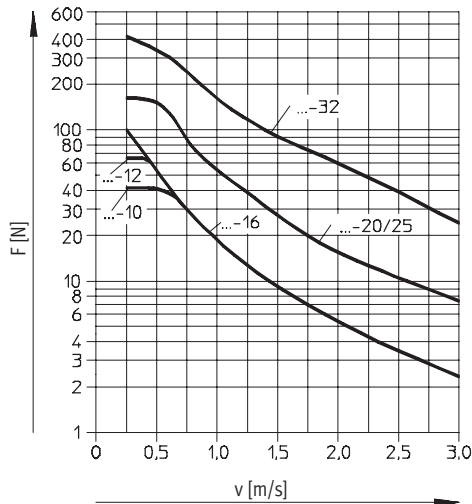
with vertical installation

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

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

m_E = Moving load (dead weight) [kg]

m_L = Load [kg]



Weights [g]							
Piston Ø	10	16	20	25	32	40	50
Product weight with 0 mm stroke	560	913	1882	1942	4300	6175	9200
Additional weight per 10 mm stroke	10	13	19	23	57	85	125
Moving load with 0 mm stroke	160	230	500	500	1500	2200	3600
Additional load per 10 mm stroke	8	8	12	12	31	49	77

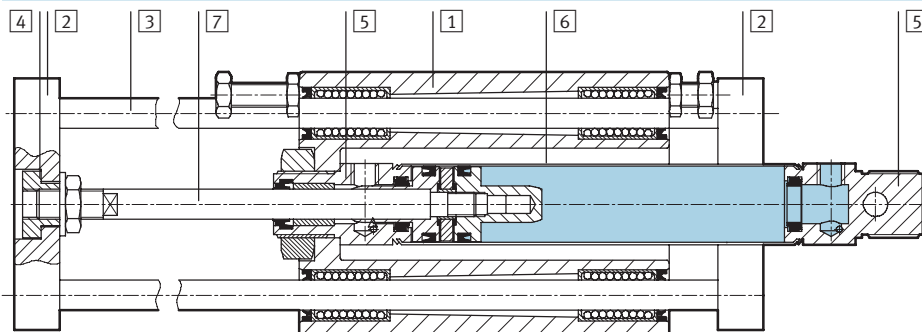
Linear units SLE

Technical data

FESTO

Materials

Sectional view



Linear unit

1	Housing	Ø 10 ... 25	Die-cast aluminium
		Ø 32 ... 50	Wrought aluminium alloy
2	Yoke/end plate		Aluminium
3	Guide rod		Tempered steel
4	Coupling		Steel
5	Bearing and end caps	Ø 10 ... 25	Wrought aluminium alloy
		Ø 32 ... 50	Die-cast aluminium
6	Cylinder barrel	Ø 10 ... 25	High-alloy stainless steel
		Ø 32 ... 50	Wrought aluminium alloy
7	Piston rod	Ø 10 ... 25	High-alloy stainless steel
		Ø 32 ... 50	High-alloy steel
–	Seals		Polyurethane, nitrile rubber

Linear units SLE

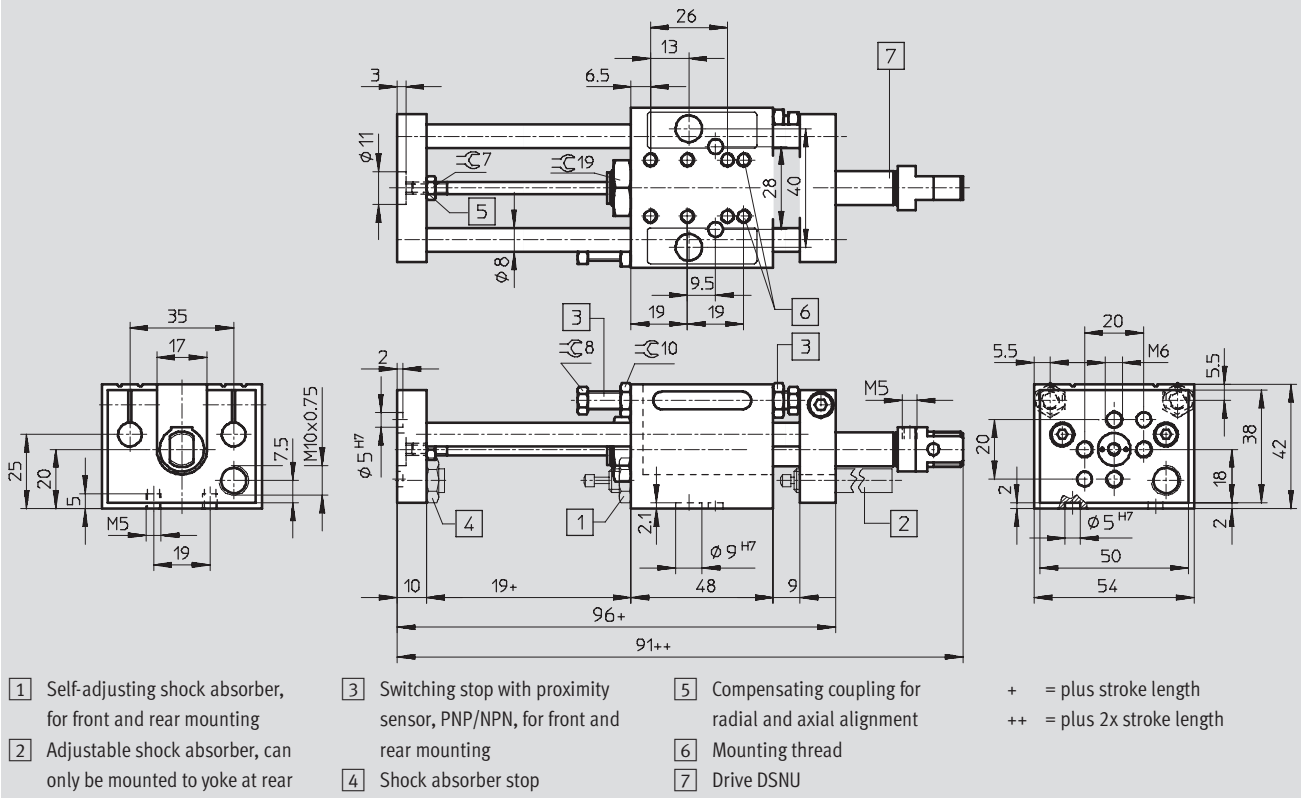
Technical data

FESTO

Dimensions

Download CAD data → www.festo.com

Piston Ø 10 mm



Linear units SLE

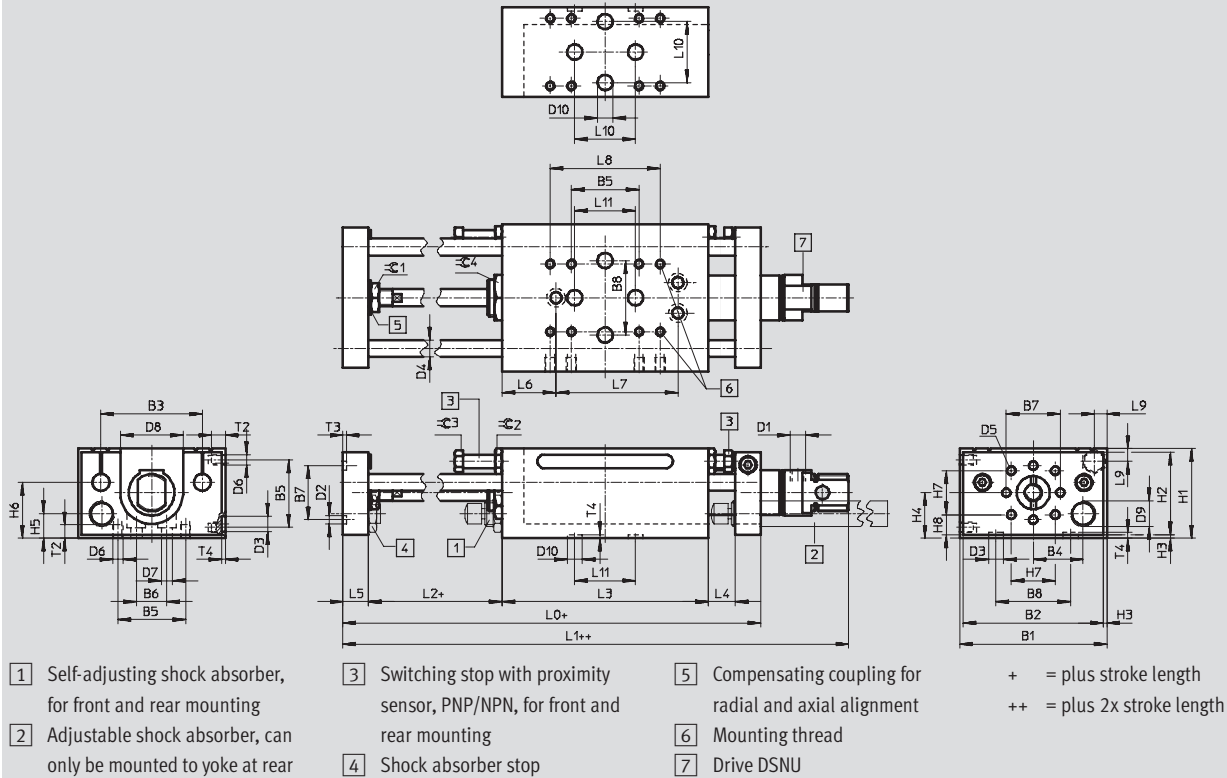
Technical data

FESTO

Dimensions

Download CAD data → www.festo.com

Piston Ø 16 ... 25 mm



Ø	B1	B2	B3	B4	B5	B6	B7	B8	D1	D2	D3	D4	D5	D6	D7
[mm]										Ø	Ø	Ø			Ø
16	64	60	44	22	26	14	28	40	M5	5	9	8	M6	M5	5.5
20	87	83	60	29.5	40	18	32	40	G1/8	5	9	10	M6	M6	6.6
25	87	83	60	29.5	40	18	32	40	G1/8	5	9	10	M6	M6	6.6

Ø	D8	D9	D10	H1	H2	H3	H4	H5	H6	H7	H8	L0	L1	L2	L3
[mm]	Ø		Ø												
16	26	M10x0.75	5	43	39	2	22	10	25	19	10.5	143	116	21	86
20	37	M15x1	9	53	49	2	27	14.5	33	26	12	197	145.5	29	122
25	37	M15x1	9	53	49	2	27	14.5	33	26	12	197	149	29	122

Ø	L4	L5	L6	L7	L8	L9	L10	L11	T2	T3	T4	≈C1	≈C2	≈C3	≈C4
[mm]															
16	12	12	21	54	40	6	–	32	7	2	2	10	10	8	19
20	16	15	32	72	65	7.5	40	40	8	2	2.1	17	13	11	27
25	16	15	32	72	65	7.5	40	40	8	2	2.1	17	13	11	27

Linear units SLE

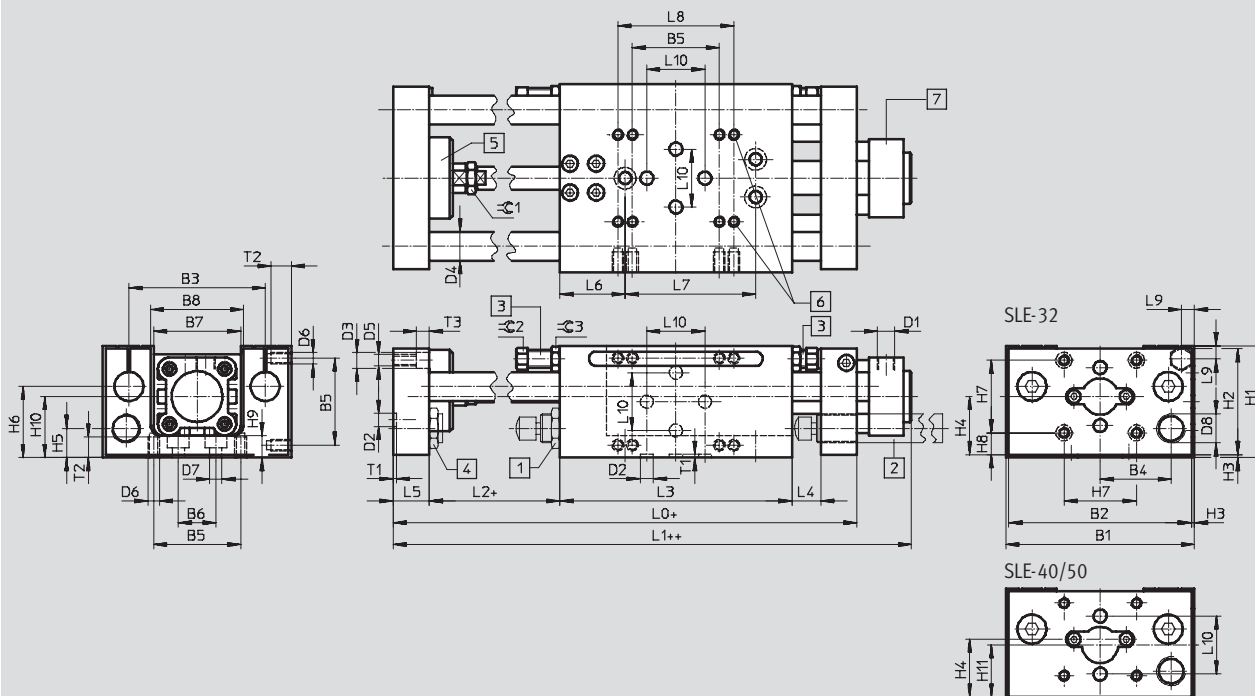
Technical data

FESTO

Dimensions

Download CAD data → www.festo.com

Piston Ø 32 ... 50 mm



- 1 Self-adjusting shock absorber, for front and rear mounting
2 Adjustable shock absorber, can only be mounted to yoke at rear

- 3 Switching stop with proximity sensor, PNP/NPN, for front and rear mounting
4 Shock absorber stop

- 5 Compensating coupling for radial and axial alignment
6 Mounting thread
7 Drive DNC

+ = plus stroke length
++ = plus 2x stroke length

Ø	B1	B2	B3	B4	B5	B6	B7	B8	D1	D2	D3	D4	D5	D6	D7
[mm]			±0.03							Ø H7	Ø	Ø h6			Ø
32	115	111	84	41.5	50	26	52	55	G1/8	9	11	16	M8	M6	8.4
40	130	126	94	49	60	26	60	64	G1/4	9	11	20	M8	M8	8.4
50	154	150	113	58	60	30	72	76	G1/4	9	15	25	M10	M8	8.4

Ø	D8	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	H11	L0	L1
[mm]							±0.1							
32	M20x1.25	70	66	2	38.5	17	43	40	18.5	14	40.5	38.5	250	172
40	M20x1.25	77	73	2	44	20	49	50	15	14	46	40	260	197.5
50	M24x1.25	90	86	2	51.5	19	52	60	16.5	16	53.5	46.5	305	226

Ø	L2	L3	L4	L5	L6	L7	L8	L9	L10	T1	T2	T3	≈G1	≈G2	≈G3
[mm]									±0.03	+0.2					
32	30	160	20	20	45	90	75	9	40	2.1	10	7.3	17	13	15
40	30	160	20	25	45	90	80	9	40	2.1	14	9	19	13	15
50	38	192	25	25	66	90	80	10	40	2.1	14	11	24	13	15

Linear units SLE

Ordering data – Modular products

FESTO

M Mandatory data							O Options			
Module No.	Drive function	Size	Stroke	Guide	Position sensing	Basic unit	Shock absorber at front	Shock absorber at rear	Sensor at front	Sensor at rear
150 088	SLE	10	10 ... 500	KF	A	G	CV YV	CH YH	PV NV	PH NH
150 090		16								
150 091		20								
150 092		25								
150 093		32								
150 094		40								
150 921		50								
Ordering example										
150 090	SLE	- 16	- 190	- KF	- A	- G	- YV	- YH	- PV	- PH

Ordering table													
Size		10	16	20	25	32	40	50	Condi- tions	Code	Enter code		
M	Module No.		150 088	150 090	150 091	150 092	150 093	150 094	150 921				
	Drive function		Linear unit								SLE	SLE	
	Size	[mm]	10	16	20	25	32	40	50		-...		
	Stroke	[mm]	10 ... 100	10 ... 200	10 ... 320		10 ... 500				-...		
	Guide		Via ball bearings								-KF	-KF	
	Position sensing		For proximity sensing								-A	-A	
	Basic unit		Linear unit with pneumatic drive								-G	-G	
O	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	

Transfer order code

	SLE	-		-		-	KF	-	A	-	G	-		-		-		-	
--	-----	---	--	---	--	---	----	---	---	---	---	---	--	---	--	---	--	---	--

Linear units SLE

Ordering data – Modular products, package solution

Mandatory data						
Module No.	Drive function	Size	Stroke	Guide	Position sensing	Standard unit
150 088 150 090 150 091 150 092 150 093 150 094 150 921	SLE	10 16 20 25 32 40 50	10 ... 500	KF	A	S
Ordering example						
150 093	SLE	- 32	- 450	- KF	- A	- S

Ordering table										
Size	10	16	20	25	32	40	50	Condi- tions	Code	Enter code
M Module No.	150 088	150 090	150 091	150 092	150 093	150 094	150 921			
Drive function	Linear unit								SLE	SLE
Size [mm]	10	16	20	25	32	40	50		-...	
Stroke [mm]	10 ... 100	10 ... 200	10 ... 320		10 ... 500				-...	
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

	SLE	-		-		-	KF	-	A	-	S
--	-----	---	--	---	--	---	----	---	---	---	---

Linear units SLE

Accessories

FESTO

Shock absorber kit

SLE-...-YSR-C, self-adjusting

(order code CV, CH)

Material:

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

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

YSR-20-25-C: Galvanised steel

Free of copper, PTFE and silicone



Ordering data			
For Ø [mm]	including shock absorber → Internet: ysr	Part No.	Type
10	YSR-8-8-C	116 246	SLE-10-YSR-C
16	YSR-8-8-C	116 247	SLE-16-YSR-C
20, 25	YSR-12-12-C	116 248	SLE-20/25-YSR-C
32	YSR-16-20-C	116 249	SLE-32-YSR-C
40	YSR-16-20-C	116 250	SLE-40-YSR-C
50	YSR-20-25-C	118 698	SLE-50-YSR-C

Shock absorber kit

SLZ-...-KF-A, adjustable

(order code YV, YH)

Material:

Galvanised steel



Ordering data			
For Ø [mm]	including shock absorber → Internet: ysr	Part No.	Type
20, 25	YSR-12-12	114 032	SLZ-25-KF-A
32, 40	YSR-16-20	114 033	SLZ-32-KF-A
50	YSR-20-25	114 034	SLZ-50-KF-A

Linear units SLE

Accessories

FESTO

Switching stop SL-...-SIE-PS

(order code PV, PH)

Kit with inductive proximity sensor
PNP

Switching stop SL-...-SIE-NS

(order code NV, NH)

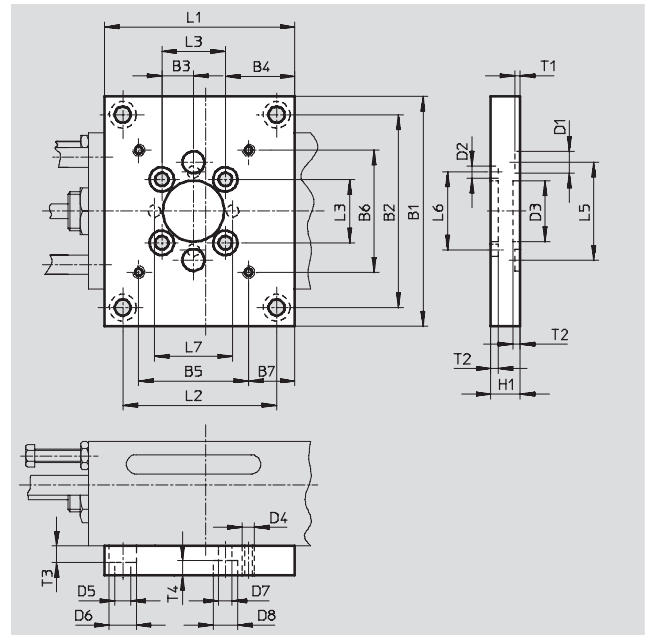
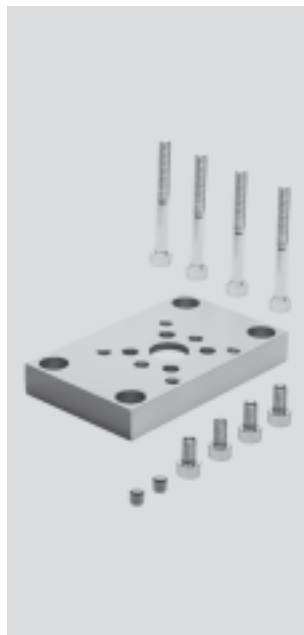
Kit with inductive proximity sensor
NPN



Ordering data				
For Ø [mm]	Switch output	including proximity sensor → Internet: sien	Part No.	Type
10, 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, 50	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 for piston Ø 10, 16 mm

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
10	82	68	9.5	20	32	32	13.5	9	5	14	M5	5.5	10	5.5	10	12	50	36
16	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
10	19	40	28	—	2.1	3	5.7	6.7	122	150 909	SLEP-10
16	26	40	32	32	2.1	3	6.8	6.7	205	150 910	SLEP-16

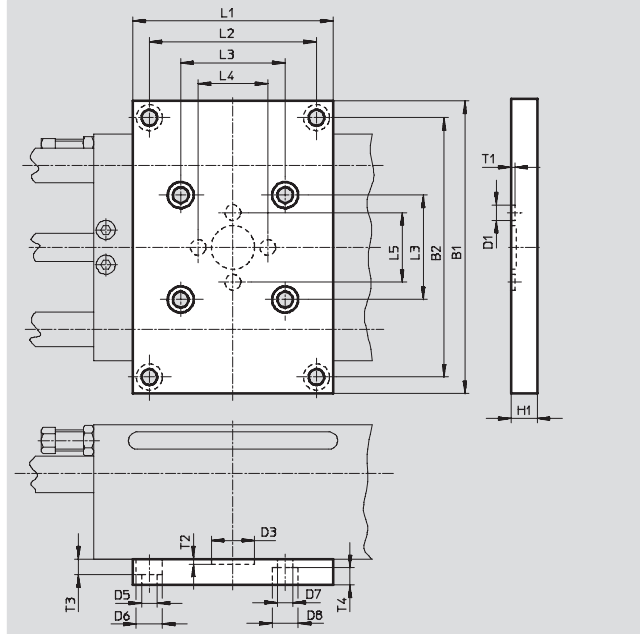
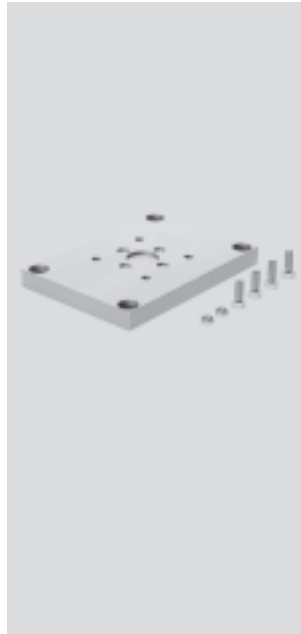
Linear units SLE

Accessories

FESTO

Adapter plate SLEP for piston Ø 20 ... 50 mm

Material:
Wrought aluminium alloy



Dimensions and ordering data											
For Ø	B1	B2	D1	D3	D5	D6	D7	D8	H1	L1	L2
[mm]			Ø H7	Ø G7	Ø	Ø	Ø	Ø			
20, 25	117	102	9	25	6.6	11	6.6	11	12	83	68
32	153	134	9	25	9	15	6.6	11	15	108	89
40	168	149	9	25	9	15	9	15	15	115	96
50	192	173	9	25	9	15	9	15	15	128	109

For Ø	L3	L4	L5	T1	T2	T3	T4	Weight	Part No.	Type
[mm]								[g]		
20, 25	40	40	40	2.1	3	6.8	7.5	307	150 911	SLEP-25
32	50	40	40	2.1	3	9	8	685	150 912	SLEP-32
40	60	40	40	2.1	3	9	10	734	150 913	SLEP-40
50	60	40	40	2.1	3	9	10	1050	150 923	SLEP-50

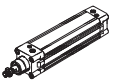
Ordering data – Accessories					
	For Ø	Material	Part No.	Type	PU ¹⁾
	[mm]				
Centring pin ZBS					
			Technical data → Internet: zbs		
	10 ... 20	Stainless steel Free of copper, PTFE and silicone	150 928	ZBS-5	10
Centring sleeve ZBH					
			Technical data → Internet: zbh		
	25 ... 50	Stainless steel Free of copper, PTFE and silicone	150 927	ZBH-9	10

1) Packaging unit quantity

Linear units SLE

Accessories

FESTO

Ordering data – Standard cylinders				Technical data → Internet: standard cylinder			
Designation	For Ø	Part No.	Type	Designation	For Ø	Part No.	Type
Standard cylinder DSNU				Standard cylinder DNC			
	10	14 325	DSNU-10-...-P-A		32	163 304	DNC-32-...-PPV-A
	16	14 320	DSNU-16-...-PPV-A		40	163 336	DNC-40-...-PPV-A
	20	14 321	DSNU-20-...-PPV-A		50	163 368	DNC-50-...-PPV-A
	25	14 322	DSNU-25-...-PPV-A				

Ordering data – Proximity sensors, round design, magneto-resistive							Technical data → Internet: smto	
	Mounting	Switch output	Electrical connection		Cable length [m]	Connection direction	Part No.	Type
			Cable	Plug M8				
Normally open contact								
	Via accessories	PNP	3-wire	–	2.5	In-line	152 836	SMTO-4U-PS-K-LED-24
			–	3-pin	–	In-line	152 742	SMTO-4U-PS-S-LED-24
		NPN	3-wire	–	2.5	In-line	152 837	SMTO-4U-NS-K-LED-24
			–	3-pin	–	In-line	152 743	SMTO-4U-NS-S-LED-24

Ordering data – Proximity sensors, round design, magnetic reed						Technical data → Internet: smeo	
	Mounting	Electrical connection		Cable length	Connection direction	Part No.	Type
		Cable	Plug M8				
Normally open contact							
	Via accessories	3-wire	–	2.5	In-line	36 198	SMEO-4U-K-LED-24
		–	–	5	In-line	175 401	SMEO-4U-K5-LED-24
		–	3-pin	–	In-line	151 526	SMEO-4U-S-LED-24-B

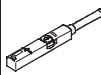
Ordering data – Mounting kits for proximity sensors SMEO/SMTO-4				Technical data → Internet: smbr	
	For Ø	Part No.	Type		
	10	19 273	SMBR-10		
	16	19 275	SMBR-16		
	20	19 276	SMBR-20		
	25	19 277	SMBR-25		

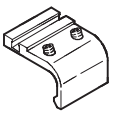
Linear units SLE

Accessories

FESTO

Ordering data – Proximity sensors for T-slot, magneto-resistive					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	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 – Proximity sensors for T-slot, magnetic reed					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	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

Ordering data – Mounting kits for proximity sensors SME/SMT-8					Technical data → Internet: smb	
	For Ø	Part No.	Type		For Ø	Part No. Type
	10	175 092	SMBR-8-10		32	175 705 SMB-8-FENG-32/40
	16	175 094	SMBR-8-16		40	
	20	175 095	SMBR-8-20		50	175 706 SMB-8-FENG-50/63
	25	175 096	SMBR-8-25			

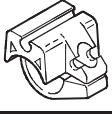
Linear units SLE

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 – Mounting kits for proximity sensors SME/SMT-10				Technical data → Internet: smbr	
	For Ø	Part No.	Type		
	10	173 227	SMBR-10-10		
	16	173 228	SMBR-10-16		
	20	175 103	SMBR-10-20		
	25	175 104	SMBR-10-25		

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

Linear units SLE

Accessories

FESTO

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
	G1/4	6		193 146	GRLA-1/4-QS-6-D
		8		193 147	GRLA-1/4-QS-8-D
		10		193 148	GRLA-1/4-QS-10-D