



EWELLIX

EWELLIX Lifting Columns

TLG

Product Data Sheet

We pioneer motion

SCHAEFFLER

1 TLG

1 TLG



001CF158

Benefits

- high offset load
- high performance

Standards

- IEC 60601-1

1 Technical data TLG

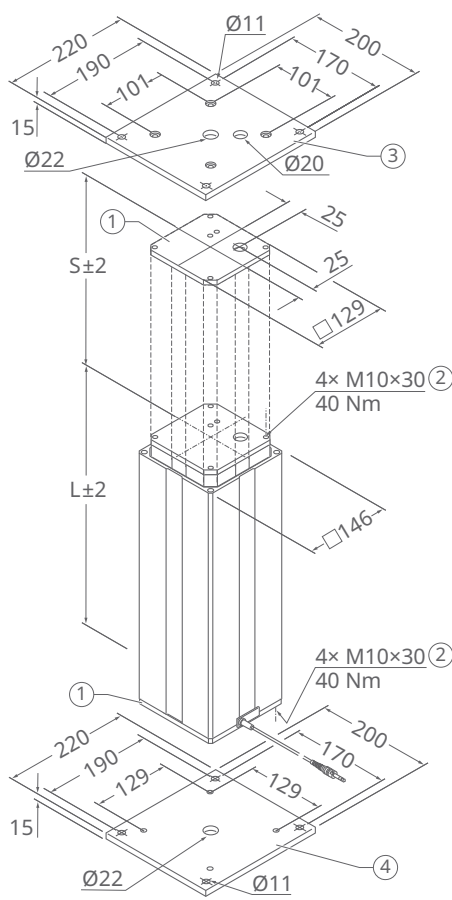
Feature	Unit	TLG10-A, TLG11-A	TLG10-B	TLG10-C, TLG11-C
Rated push force	N	4000	2500	1500
Rated pull force	N	0	0	0
Offset load	Nm	≤ 2800 ¹⁾	≤ 1750 ¹⁾	≤ 950 ¹⁾
Speed (full load to no load)	mm/s	10 to 14	13 to 17	25 to 33
Lifting column version (number of guide tubes)	–	2-piece or 3-piece	2-piece or 3-piece	2-piece or 3-piece
Stroke S	mm	200 to 700	200 to 700	200 to 700
Retracted length L	mm	S + 180	S + 180	S + 180
Voltage	V DC	24	24	24
Power consumption	W	156	156	156
Current consumption	A	6	6	6
Duty cycle, intermittent operation	min	ON: 1 min / OFF: 9 min	ON: 1 min / OFF: 9 min	ON: 1 min / OFF: 9 min
Ambient temperature during operation	°C	+10 to +40	+10 to +40	+10 to +40
	°F	+50 to +104	+50 to +104	+50 to +104
Protection code (IP)	–	IP30	IP30	IP30
Protection class IEC 61140	–	SELV	SELV	SELV
Type of control	–	Electrical	Electrical	Electrical
Mass	kg	15 to 30	15 to 30	15 to 30

¹⁾ for details, see bending load diagram

Dimensional drawings

1

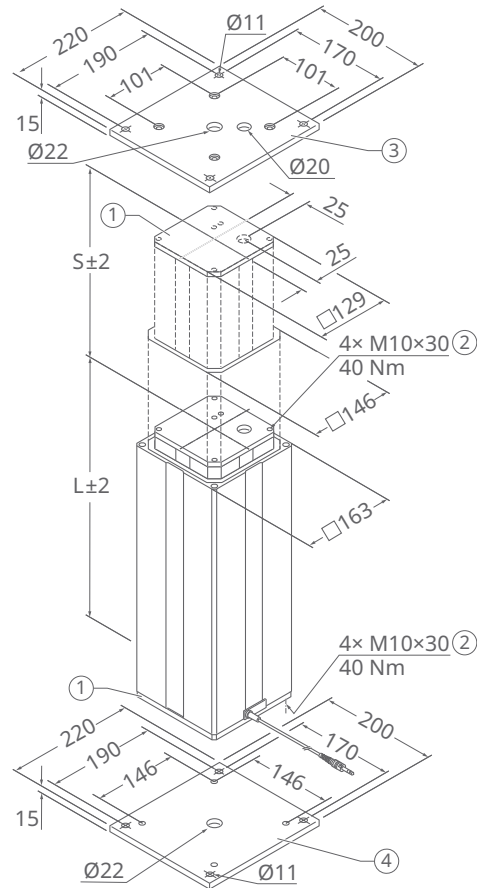
2 Dimensions TLG, 2-piece guide tube unit



001D23ED

S	Stroke	L	Retracted length
1	Base plate	2	Thread for fastening screws
3	Upper mounting plate, not included in scope of delivery	4	Lower mounting plate, not included in scope of delivery

3 Dimensions TLG, 3-piece guide tube unit



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S	Stroke	L	Retracted length
1	Base plate	2	Thread for fastening screws
3	Upper mounting plate, not included in scope of delivery	4	Lower mounting plate, not included in scope of delivery

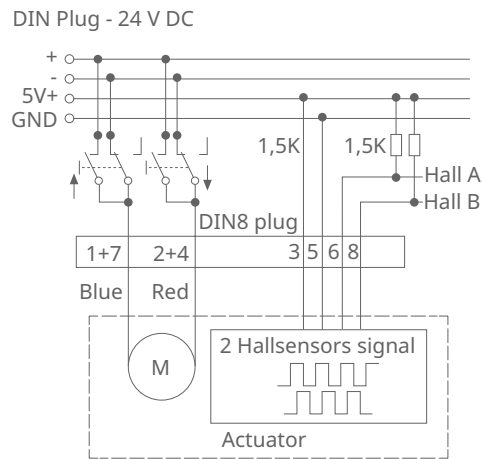
Mounting plates are not included in the scope of delivery and are available separately as accessories.

Fastening screws are not included in the scope of delivery and are available separately as accessories.

Wiring diagrams

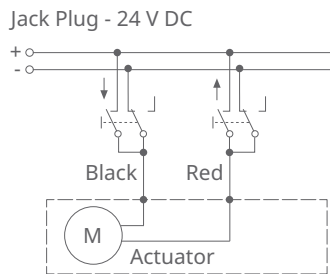
The connecting diagrams are only valid for TLG11. TLG10 must be operated with a BCU, MCU, SCU, or VCU control unit.

4 Connecting diagram DC 24 V, DIN-8 plug



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5 Connecting diagram DC 24 V, jack plug



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Suitable control units and accessories

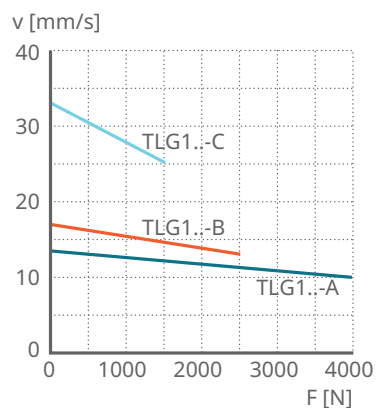
2 Suitable control units and operating elements

Operating element		Control unit			
Designation	Switch	SCU	VCU	BCU	MCU
EHA1	M	-	-	-	✓
EHA3	M	✓	✓	✓	-
STF	F	-	-	-	✓
STJ	F	✓	✓	✓	-
STA	T	-	-	-	✓
STE	T	✓	✓	✓	-

- M Hand switch
- F Foot switch
- T Desk switch
- ✓ suitable
- not suitable

Performance diagrams

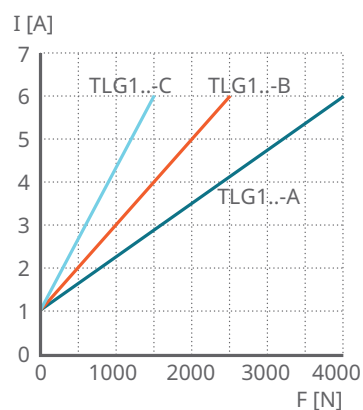
6 Speed-load diagram TLG



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v Speed | F Load

7 Current-load diagram TLG

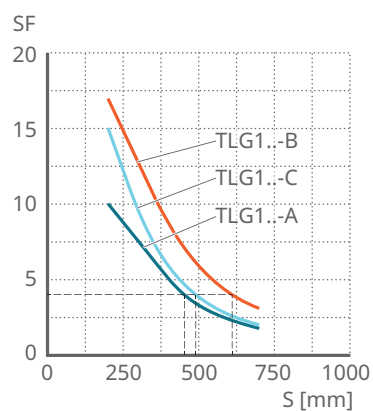


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I Current consumption | F Load

Safety factor under load conditions

8 Safety factor under load conditions



001D1819

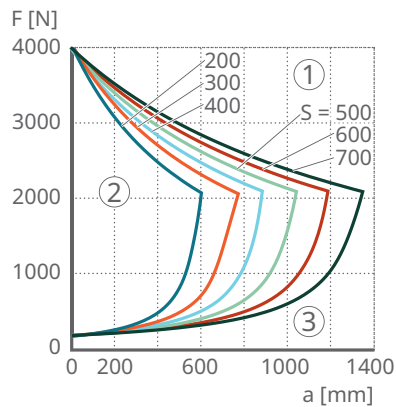
SF Safety factor | S Stroke

Example for reading the safety factor $SF = 4$

Offset load diagrams

1

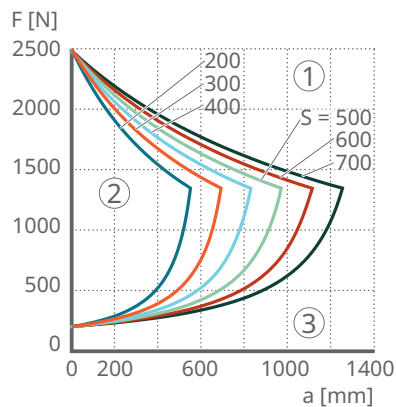
9 Offset load diagram TLG1..-AD



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F	Load	a	Load distance from center of column
S	Stroke in mm	1	Overload range
2	Ideal load range	3	Underload range

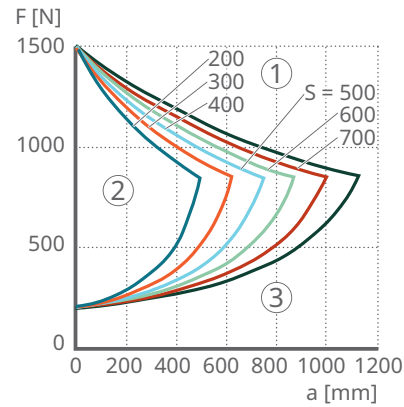
10 Offset load diagram TLG1..-BD



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F	Load	a	Load distance from center of column
S	Stroke in mm	1	Overload range
2	Ideal load range	3	Underload range

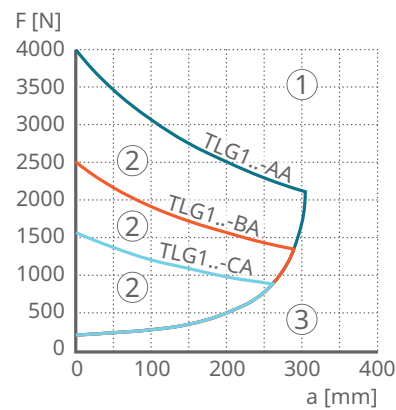
11 Offset load diagram TLG1..-CD



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F	Load	a	Load distance from center of column
S	Stroke in mm	1	Overload range
2	Ideal load range	3	Underload range

12 Offset load diagram TLG1..-AA, TLG1..-BA, TLG1..-CA



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F	Load	a	Load distance from center of column
1	Overload range	2	Ideal load range
3	Underload range		

Accessories

3 Accessories TLG

Accessories	Ordering designation	Order number
Upper mounting plate for 2-piece guide tube unit	ZPL-290268	0125624
Lower mounting plate for 2-piece guide tube unit	ZPL-290351	0125625
Upper mounting plate for 3-piece guide tube unit	ZPL-290268	0125624
Lower mounting plate for 3-piece guide tube unit	ZPL-290265	0125623
Fastening screw for mounting plate (4 screws/plate required)	ZBE-510707	0125360

Ordering key

13 Ordering designation TLG

TLG 1 0 - A A 2 1 0 - 000

Type**Voltage**

- 1 DC 24 V
- 2 DC 24 V with integrated current shutdown (only for versions with loads of 4000 N and 1500 N), available on request

Load

- A 4000 N
- B 2500 N
- C 1500 N

Guide tube unit

- A 2-piece
- D 3-piece

Stroke S

- 2 200 mm
- 3 300 mm
- 4 400 mm
- 5 500 mm
- 6 600 mm
- 7 700 mm

Cable/connecting plug

- 1 Straight cable, 1.0 m, jack plug, available on request
- 2 Straight cable, 2.3 m, jack plug
- A Spiral cable, 0.6 m, jack plug, available on request
- 3 Straight cable, 1.0 m, DIN-8 plug
- 4 Straight cable, 2.3 m, DIN-8 plug
- B Spiral cable, 0.6 m, DIN-8 plug

Option

- 0 No option
- A Single Hall encoder, 8 pulses, cable with jack plug
- B Potentiometer, 1 kΩ, 2 watts, 0.25 % linearity, 10 turns, available on request
- C Cable feedthrough, 5×0.75 mm², LED output, top +160 mm, bottom +800 mm, available on request
- D Cable feedthrough, single Hall encoder, 8 pulses, cable with jack plug, available on request
- E Cable feedthrough, potentiometer, available on request
- F Dual Hall encoder, cable with DIN-8 plug
- G Cable feedthrough, dual Hall encoder, cable with DIN-8 plug, available on request

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