



EWELLIX

## EWELLIX Lifting Columns

TLG

Product Data Sheet

We pioneer motion

**SCHAEFFLER**



# 1 TLG



## Benefits

- high offset load
- high performance

## Standards

- IEC 60601-1

## Technical data TLG

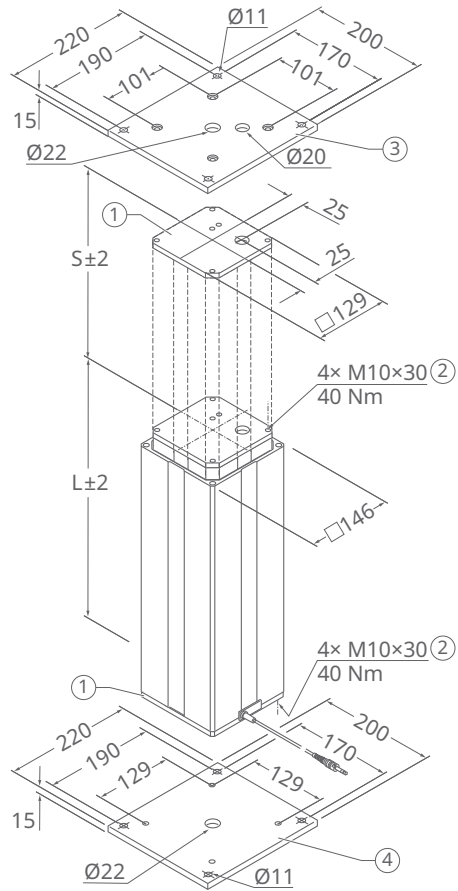
Feature	Unit	TLG10-A, TLG11-A	TLG10-B	TLG10-C, TLG11-C
Rated push force	N	4000	2500	1500
Rated pull force	N	0	0	0
Offset load	Nm	≤ 2800 <sup>1)</sup>	≤ 1750 <sup>1)</sup>	≤ 950 <sup>1)</sup>
Speed (full load to no load)	mm/s	10 to 14	13 to 17	25 to 33
Lifting column version (number of guide tubes)	-	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

<sup>1)</sup> for details, see bending load diagram

Dimensional drawings

1

2 Dimensions TLG, 2-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



3 Dimensions TLG, 3-piece guide tube unit

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.

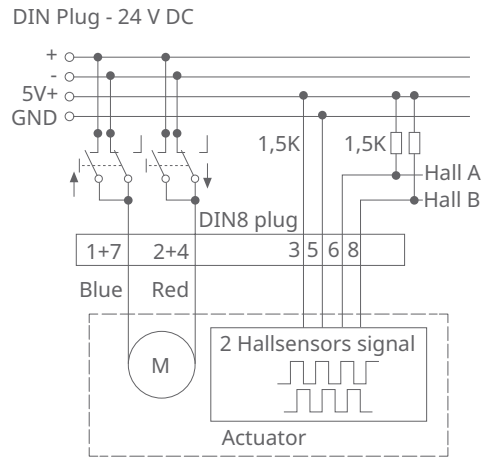
Fastening screws are not included in the scope of delivery and are available separately as accessories.

### Wiring diagrams

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

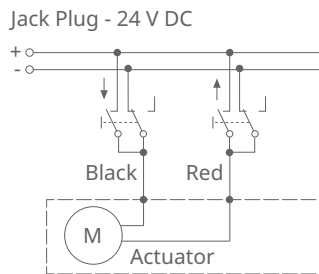
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4 Connecting diagram DC 24 V, DIN-8 plug



001D363A

5 Connecting diagram DC 24 V, jack plug



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### Suitable control units and accessories

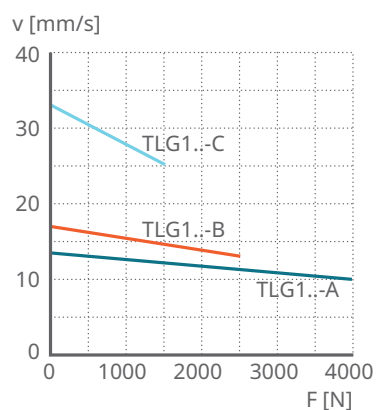
2 Suitable control units and operating devices

Operating device		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

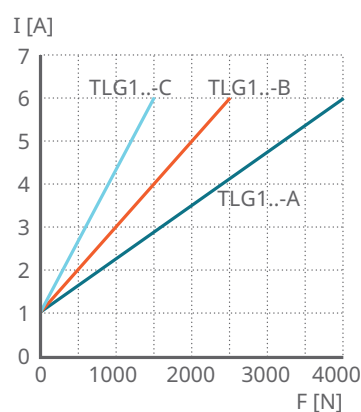
6 Speed-load diagram TLG



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v Speed | F Load

7 Current-load diagram TLG

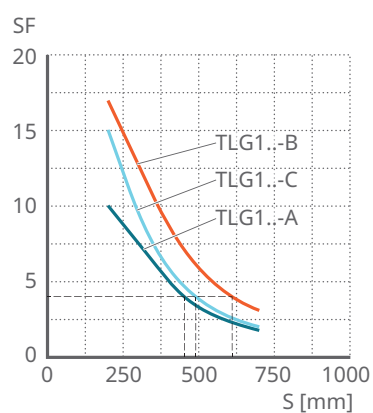


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I Current consumption | F Load

### Safety factor under load conditions

8 Safety factor under load conditions



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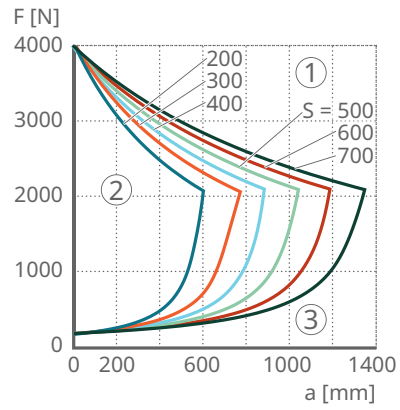
SF Safety factor | S Stroke

Example for reading the safety factor SF = 4

### Offset load diagrams

1

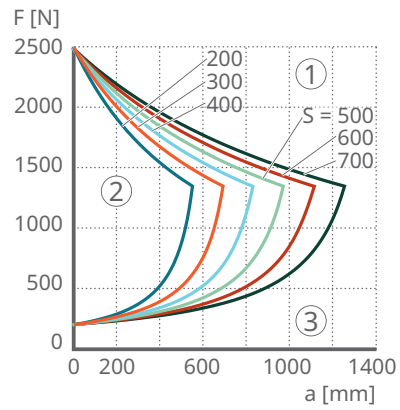
9 Offset load diagram TLG1..-AD



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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

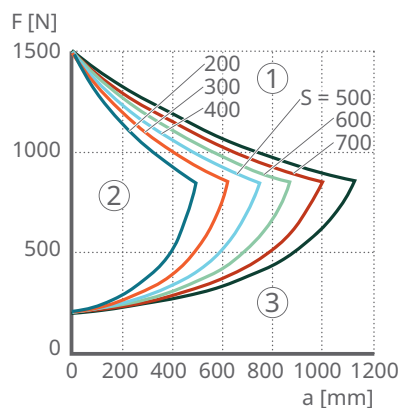
10 Offset load diagram TLG1..-BD



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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

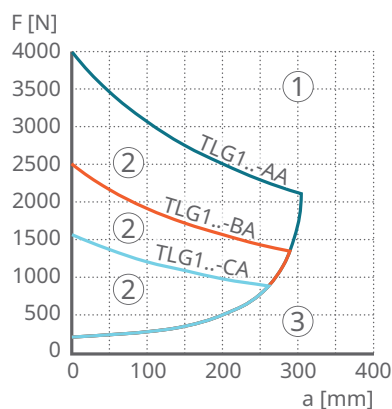
11 Offset load diagram TLG1..-CD



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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, 10 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 mm<sup>2</sup>, 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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**Schaeffler Technologies AG & Co. KG**

Georg-Schäfer-Straße 30

97421 Schweinfurt

Germany

[www.schaeffler.de/en](http://www.schaeffler.de/en)

[info.de@schaeffler.com](mailto:info.de@schaeffler.com)

In Germany:

Phone 0180 5003872

From other countries:

Phone +49 9721 91-0

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