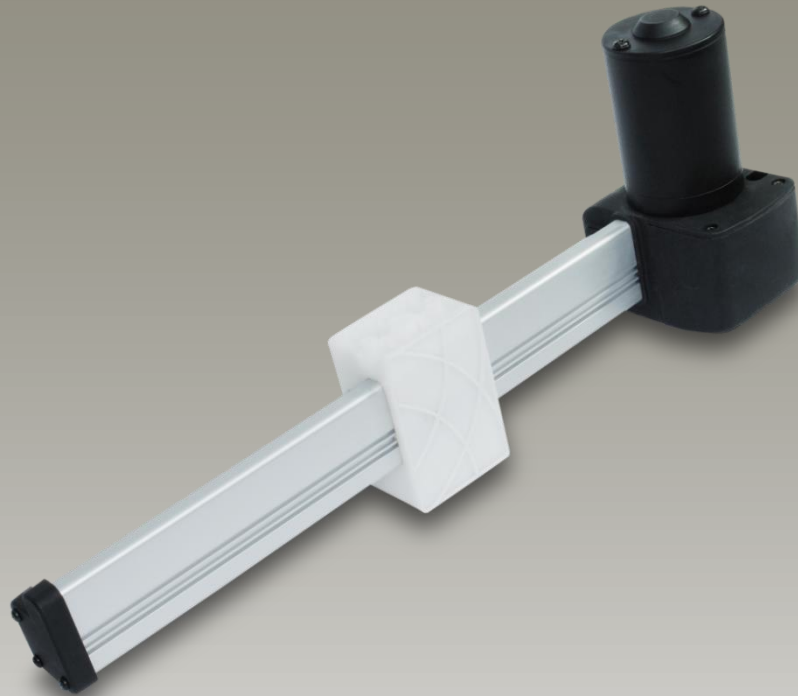


# Actuator

## BD61



## Features

- ◆ BD61 is a quiet and powerful actuator designed for use in furniture, homecare and fitness equipment. The actuator block allows a big stroke range in confined spaces. The small fitting dimensions make BD61 an ideal solution for recliners with lifting assistance.
- ◆ Main applications : furniture, homecare, and fitness equipment
- ◆ Input voltage : 24V DC / 12V DC
- ◆ Max. load : 6000N (push) / 4000N (pull)
- ◆ Max. current : 6A @ 12V DC, 3A @ 24V DC
- ◆ Max. speed at no load : 33.3 mm/sec
- ◆ Max. speed at full load : 2.9 mm/sec @ 6000N
- ◆ Stroke : 100~1600mm
- ◆ Duty cycle : 10%, max. 2 min. continuous operation in 20 min.
- ◆ Ambient operation temperature : -20°C ~ +65°C
- ◆ Color : Black
- ◆ Certified : CE Marking, EMC Directive 2014/30/EU
- ◆ Noise Level :  $\leq$  50dB
- ◆ Adjustable limit switches

# Options

- ◆ Positioning signal feedback with Hall effect sensor x 1
- ◆ Positioning signal feedback with Hall effect sensor x 2

# Compatibility

## 1. Control box

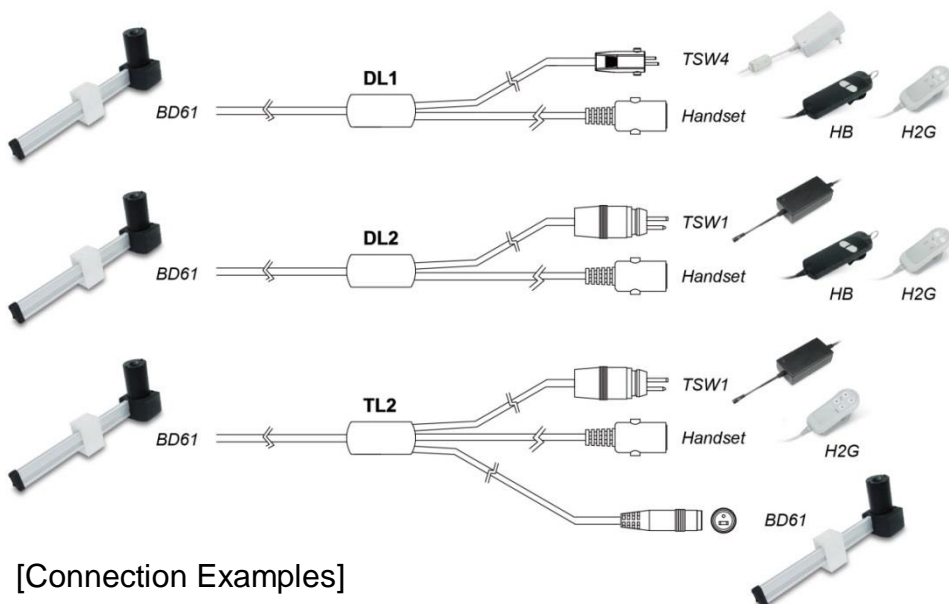
Function	Models	BD61 cable plug
Without positioning sensor feedback	T control, CSI, TR11, TL01, CB3T, CB4M	4-pin Moteck F type DIN plug
Positioning signal feedback with Hall effect sensor x 1	CB4M-SY	6-pin Moteck F type DIN plug
Positioning signal feedback with Hall effect sensor x 2	CB3T-SY, CB4M-4SY	6-pin Moteck F type DIN plug

## 2. Handset

- (1) Depend on control box
- (2) HB, H2G (BD61 chooses special cable DL1, DL2, or TL2 to connect to power supply and handset, without control box)

## 3. Accessory

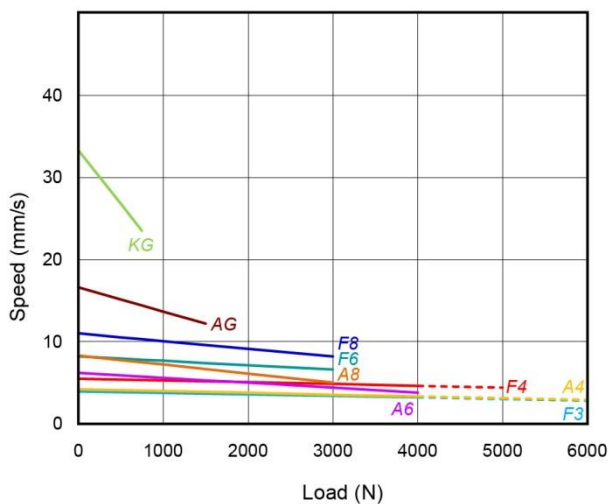
Accessory models	BD61 cable plug
T Connector	4-pin Moteck F-type DIN plug
TSW1 switching mode power supply	Special cable DL2 or TL2, without control box
TSW4 switching mode power supply	Special cable DL1, without control box



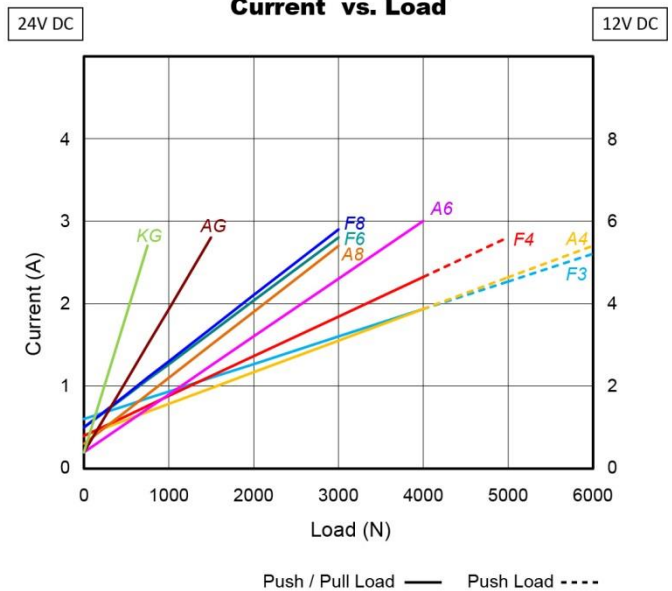
# Performance Data

Model No.	Push Max. (N)	Pull Max. (N)	Speed (mm/s)		Current (A)			
			No load	Full load	No load		Full load	
					12V	24V	12V	24V
BD61-XX-F3- XXX.XXX	6000	4000	4.1	2.8	1.2	0.6	5.2	2.6
BD61-XX-A4- XXX.XXX	6000	4000	4.2	2.9	0.8	0.4	5.4	2.7
BD61-XX-F4- XXX.XXX	5000	3500	5.5	4.4	0.8	0.4	5.6	2.8
BD61-XX-A6- XXX.XXX	4000	3000	6.2	3.8	0.4	0.2	6.0	3.0
BD61-XX-F6- XXX.XXX	4000	3000	8.2	6.6	1.0	0.5	5.6	2.8
BD61-XX-A8- XXX.XXX	3000	2500	8.3	5.0	0.6	0.3	5.4	2.7
BD61-XX-F8- XXX.XXX	3000	2500	11.0	8.2	1.0	0.5	5.8	2.9
BD61-XX-AG- XXX.XXX	1500	1500	16.6	12.2	0.4	0.2	5.6	2.8
BD61-XX-KG- XXX.XXX	750	750	33.3	23.5	0.4	0.2	5.2	2.6

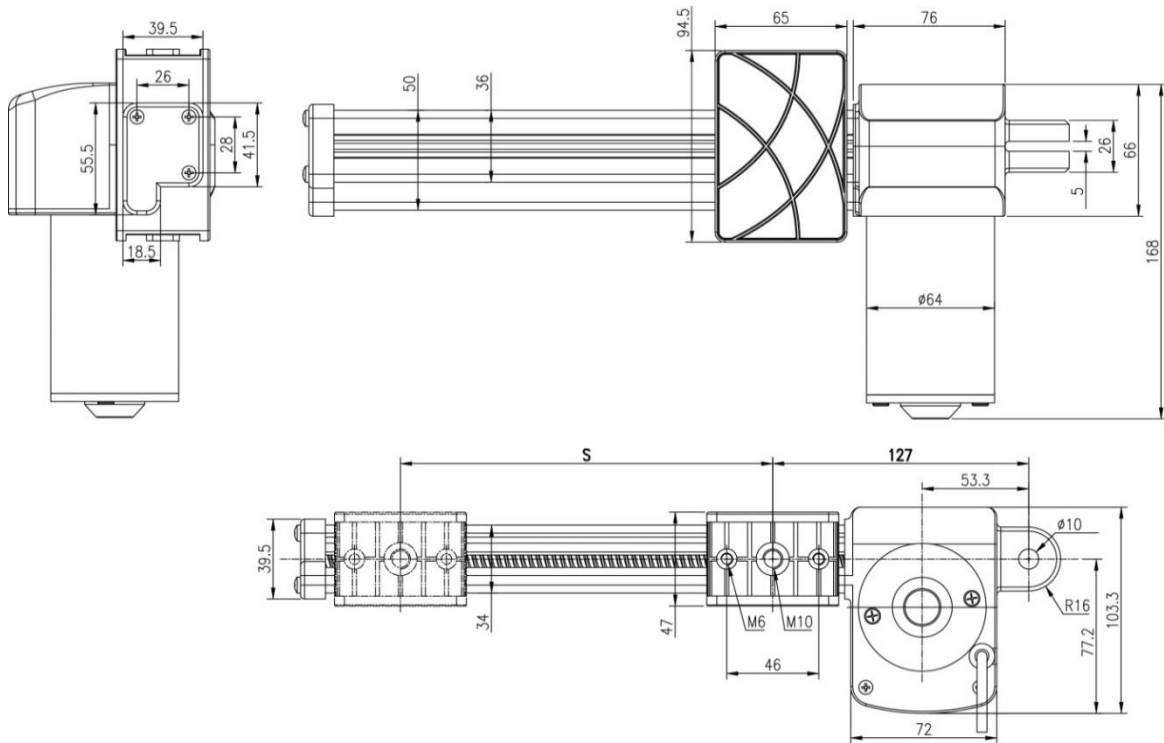
**Speed vs. Load**



**Current vs. Load**



# Dimensions



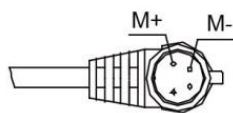
Unit: mm

- ◆ Available stroke (S) range = 100 ~ 1600 mm
- ◆ Retracted length (A) = 127mm Min.
- ◆ Extended length (B) = A + S

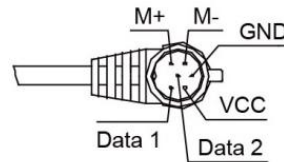
# Cable Plug

- ◆ Moteck F type DIN plug

When M+ is connected to "+" and M- is connected to "-" of DC power, the actuator will extend.

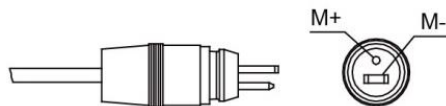


No sensor feedback



1x or 2x Hall sensors for positioning

- ◆ Plug used on the second actuator connected to TL2 cable.



# Ordering Key

**BD61**—□□—□□—□□□.□□□—**C11**—□□□

**Input Voltage**

24 : 24V DC

12 : 12V DC

**Motor and Spindle Type**

F3, A4, F4, A6, F6, A8, F8, AG, KG

(Refer to Performance Data)

**Retracted Length**

(Refer to paragraph Dimensions)

**Extended Length**

(Refer to paragraph Dimensions)

**Front Connector**

1 : Plastic

**Rear Connector**

1 : Plastic

**Option**

HS1 : Hall effect sensor x 1

HS2 : Hall effect sensor x 2

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