

# Actuator **BD62**

BD62 belongs to the design concept of slider-type linear motion, which can obtain a larger stroke with a smaller installation size, and can be applied in both push and pull directions. The compact size design is an ideal driving solution in the fields of furniture, home care and fitness equipment.

## **Features and Options**

**Main applications:** Furniture, Home care and Fitness equipment **Standard features:** 

- Input voltage: 24V DC
- Max. load: 3000N (Push / Pull)
- Max. speed at no load: 6.2mm/sec (Typical value)
- Speed at full load: 3.8mm/sec (Typical value @3000N loaded)
- ullet Stroke: 100  $\sim$  1000mm
- Noise level: ≤55dB
- Preset limit switches
- Front end cover has the metal plate for fixing
- Duty cycle: 10%, max. 2 min. continuous operation in 20 min.
- ullet Operating ambient temperature: -20°C  $\sim$  +65°C

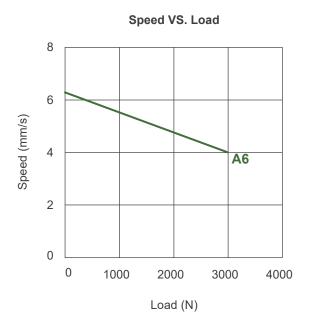
## Options:

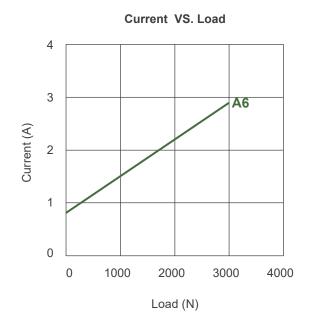
Positioning signal feedback with Hall effect sensor x 2

1

## **Performance Data**

Model No.	Max. load (N)	Self-locking ability (N) *	Typical Speed (mm/s) ***		Typical Current (A) ***	
			No Load	Full Load	No Load	Full Load
BD62-D0-24D <b>A6</b>	3000	3000	6.3	4.0	0.8	2.9





#### Remarks:

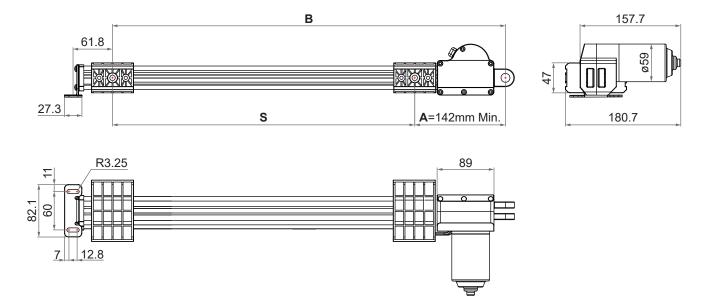
- \* The self-locking ability is performed by short circuit the motor terminals when the actuator is powered off.

  All MOTECK compatible control boxes are designed with this feature. Mechanical brake in push direction is available upon request, to further enhance the self-locking ability to maximum load.
- \*\* The typical speed or typical current means the average value neither upper limit nor lower limit, which measured under room temperature and stable power. The performance curves are made with typical values.

## **Dimensions**

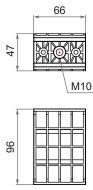
- ullet Available stroke (S) range = 100  $\sim$  1000mm
- Extended length (B) = Retracted length (A) + Stroke (S)
- Retracted length (A) = 142mm Min. (±3mm)

## • Drawing



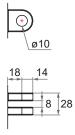
### • Front connector

D: D-type plastic slider block



### • Rear connector

0: Plastic



# Compatibility

Product	Model	BD62 spec		
Control box	T-control, CS1, CS2, CB3T, CB4M, CBT2	Without positioning sensor     With Moteck F-type 4-pin DIN plug		
	CF11H, CF12H	Without positioning sensor     With Moteck L3-type minifit 6-pin plug		
	CB3T-SY, CB4M-S, CB4M-B	With dual Hall effect sensors for positioning     With Moteck F-type 6-pin DIN plug		
	CF11S, CF12S	With dual Hall effect sensors for positioning     With Moteck L3-type minifit 6-pin plug		
Hand control	Depend on control box	Powered by control box		
	HS15	• With Moteck S-type DIN 41529 male plug <sup>(1)</sup>		
	HB, TPSL, HS02, HZ02, HZ03, HZ04, HZ05, HZ06	With Moteck direct-cut power cable DL1 (2)		
Accessory	Power adapter: DPA-58-2920-C8 (formerly TSW1), DPA-87-2930-C6 (formerly TSW3), WPA-29-2910-NA (formerly TSW4), DPA-87-2930-C8			

## Remarks:

- (1) The S-type DIN 41529 plug of the actuator is connected to the HS15 hand control directly, no control box.
- (2) The actuator is connected to the hand control through the DL1 cable directly, no control box.

# Cable Plug

# A. Connecting control devices that provide power

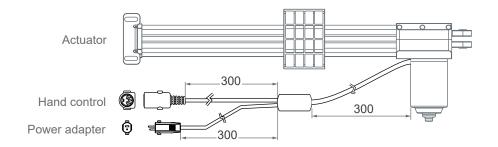
	Without positioning feedback	Positioning feedback with dual Hall effect sensors
Moteck F-type DIN male plug	M- M+ 4p2c	GND Hall 2  M- Vin  M+ Hall 1
Moteck L3-type Minifit male plug	M-	Vin  M- GND  Hall 2  Hall 1  6p6c
*	M- M+	N/A
Moteck S-type DIN 41529 male plug	2p2c	

Note: Pin definition

	Definition	Descriptions			
Power	M+	Connect M+ to "Vdc +" & M- to "Vdc -" of DC power to extend the actuator. Switch the polarity of DC input to retract it.			
	M-				
	Vin	Voltage input range: 5 ~ 20V			
Signal Hall outpo	Hall 1 output	High= Input - 1.2V (±0.6V) Low= GND Hall signal data:  High Low High Low Hall 1			
	Hall 2 output	High High Low High Low Hall 2  Actuator extends Actuator retracts  Hall effect sensor resolution: 6.667 pulses/mm			
	GND				

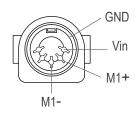
## B. Connecting control devices that DO NOT provide power

- 1. Cable solution
  - With direct-cut power cable DL1



## 2. Hand control connector: Moteck U-type DIN 5-pin female connector

• 1 drive



**Note:** Connect M1+ to "Vdc +" & M1- to "Vdc -" of DC power to extend the M1 actuator. Switch the polarity of DC input to retract it.





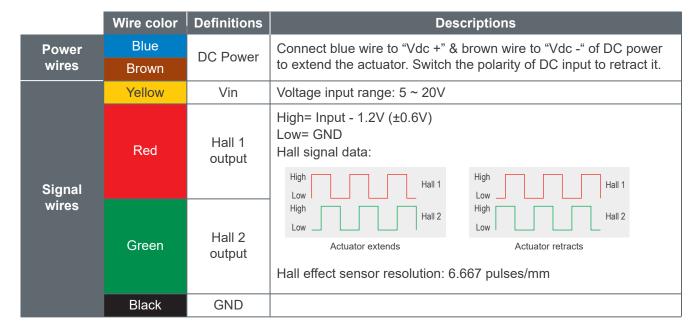


# **Cable with Flying Leads**

• Basic, without positioning feedback.

	Wire color	Definition	Descriptions
Power	White	DC Power	Connect white wire to "Vdc +" & black wire to "Vdc -" of DC power
wires	Black		to extend the actuator. Switch the polarity of DC input to retract it.

## • With dual Hall effect sensors for positioning



## **Ordering Key**

