

# Actuator MK67

MK67 is an economical actuator for medical applications with the advantages of short installation dimension and small size of the motor box. It can be equipped with dual Hall sensors to feedback positioning signals. Mainly used in applications such as home care and medical beds.



# **Features and Options**

Main applications: Medical, Home care

# Standard features:

- Input voltage: 24V DC

- Max. load: 6000N (push) / 3000N (pull)

- Typical speed at full load: 2.7mm/sec (6000N load)

Stroke: 50 ~ 300mmNoise level: ≤50dB

- IP level: IPX5

- Aluminum alloy outer tube

- Color: Light gray RAL 7035

- Duty cycle: 10%, max. 2 min. continuous operation in 20 min.

- Ambient operation temperature: +5°C ~ +40°C

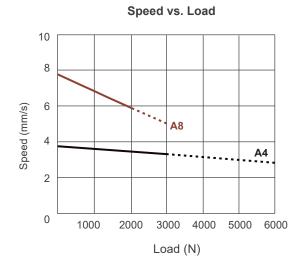
#### **Options:**

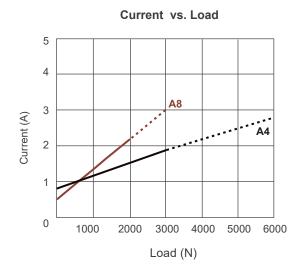
- Positioning signal feedback with dual Hall effect sensors
- Push only
- Pivot orientation of rear connector 90°

1

# **Performance Data**

Model No.	Push Max. (N)	Pull Max. (N)	*Braking ability (N)	**Typical Speed (mm/s)		**Typical Current (A)	
				No load	Full load	No load	Full load
MK67-24- <b>A4</b>	6000	3000	6000	3.8	2.7	0.8	2.8
MK67-24- <b>A8</b>	3000	2000	3000	7.8	5.2	0.5	3.0





Push / Pull Load —

Push Load ---

#### Remarks:

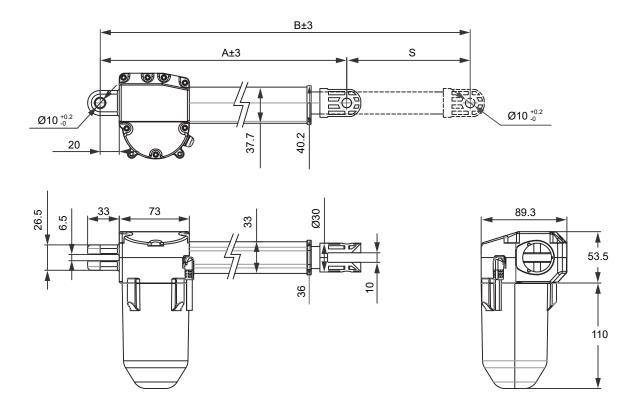
- \* Equipped with mechanical brakes for thrust applications only.
- \*\* The typical speed and current are the average value neither upper limit nor lower limit, which measured under room temperature and stable power. The performance curves are made with typical values.

# **Dimensions**

Retracted length (A):
Unit: mm

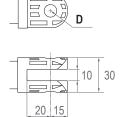
Front connector	Retracted length(A)
1	A≧S+170mm
3, 7	A <u>≥</u> S+142mm

- ullet Available stroke (S) range = 50  $\sim$  300 mm
- Extended length (B) = Retracted length (A) + Stroke (S)

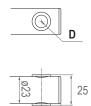


#### • Front connector

#### 1: Plastic



# 3: Drilled hole with bushing



15.5

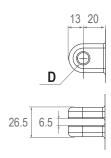
# 7: Plastic bushing





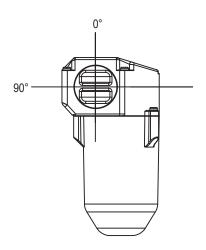
#### • Rear connector

## 1: Plastic



Front connector code	Diameter of pivot (D)
1	Ø8, Ø10, Ø12
3	Ø8, Ø10
7	Ø10
Rear connector code	Diameter of pivot (D)
1	Ø10

## • Pivot orientation of rear connectors



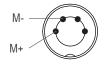
\*Remarks: As an example in 0° orientation for rear connector.

# Compatibility

Product	Model	MK67 spec		
Control box	CB4P	- Without positioning sensor feedback - With Moteck H-type 4-pin DIN plug		
	CB5P-M, CM41-M	- With dual Hall effect sensors - With Moteck LR-type minifit 6-pin plug		
	CM45, MD6C-M	- Without positioning sensor - With Moteck V-type or H-type 4-pin DIN plug		
	MD6C-M	- With dual Hall effect sensors - With Moteck V-type or H-type 6-pin DIN plug		

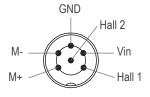
# Cable Plug

- With Moteck H-type, V-type or LR-type plug:
  - Without Hall effect sensor

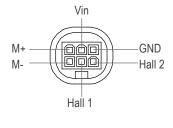


H-type or V-type 4-pin DIN plug

- With dual Hall effect sensors



H-type or V-type 6-pin DIN plug



LR-type minifit 6-pin plug

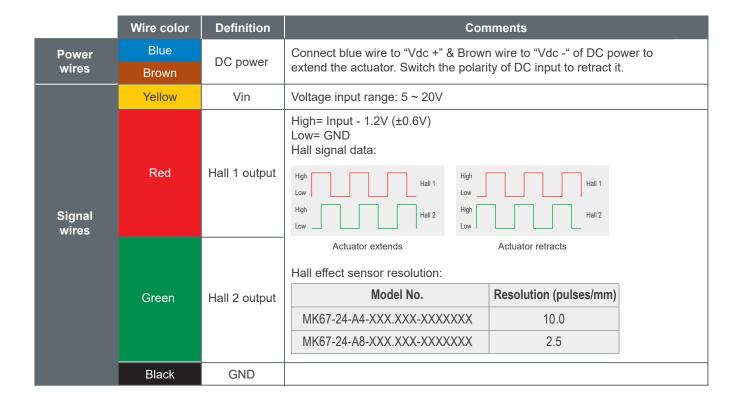


# **Cable with Flying Leads**

## Without positioning feedback

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

#### With dual Hall effect sensors for positioning



# **Ordering Key**

