

Actuator MK32

MK32 is a small actuator with push/pull force up to 3500N. It features compact outline and low noise level that is mainly suitable for medical and furniture applications such as recliners, beds, etc., as well as various industrial applications with limited installation space.



Features and Options

Main applications: Medical, furniture, industry

Standard features:

- Input voltage: 24V DC
- Max. load: 3500N (Push/Pull)
- Max. speed at no load: 26.0mm/sec (Typical value)
- Speed at full load: 5.0mm/sec (Typical value @3500N loaded)
- ullet Stroke: 50 \sim 600mm
- Noise level: ≦52dB
- IP level: IPX4, IP66 (Static; non-action)
- Aluminum alloy outer tube and gear box
- Color: Aluminum grey
- Preset limit switches
- Duty cycle: 10%, max. 2 min. continuous operation in 20 min.
- ullet Operating ambient temperature: -20°C \sim +65°C
- Certified: CE Marking, Electromagnetic Compatibility Directive 2014/30/EU (MK32-24NX motors only)

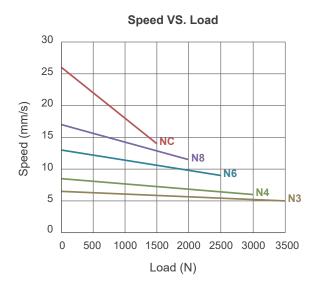
Options:

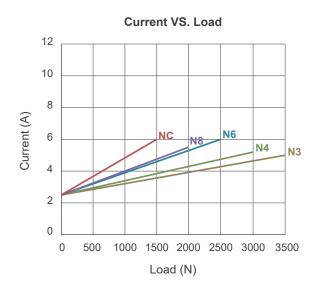
- Positioning signal feedback with dual Hall effect sensors
- Safety nut (in push direction)
- Mechanical push only extension tube

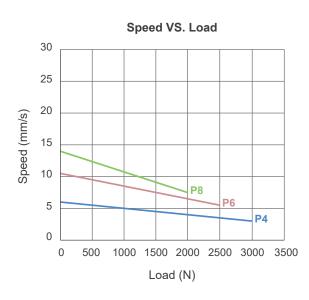
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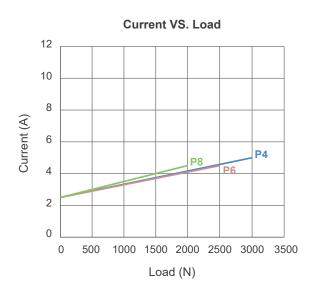
Performance Data

Model No.	Push / Pull Max. (N)	Typical Speed (mm/s)*		Typical Current @ 24V DC*	
Model No.		No Load	Full Load	No Load	Full Load
MK32-24 N3 -XXX.XXX-XXXXXXX	3500	6.5	5.0	2.5	5.0
MK32-24 N4 -XXX.XXX-XXXXXXX	3000	8.5	6.0	2.5	5.2
MK32-24 N6 -XXX.XXX-XXXXXXX	2500	13.0	9.0	2.5	6.0
MK32-24 N8 -XXX.XXX-XXXXXXX	2000	17.0	11.5	2.5	5.5
$MK32\text{-24}\mathbf{NC\text{-}XXX.XXX\text{-}XXXXXXX}$	1500	26.0	14.0	2.5	6.0
MK32-24 P4 -XXX.XXX-XXXXXXX	3000	6.0	3.0	2.5	5.0
MK32-24 P6 -XXX.XXX-XXXXXX	2500	10.5	5.5	2.5	4.5
MK32-24 P8 -XXX.XXX-XXXXXXX	2000	14.0	7.5	2.5	4.5









Remarks:

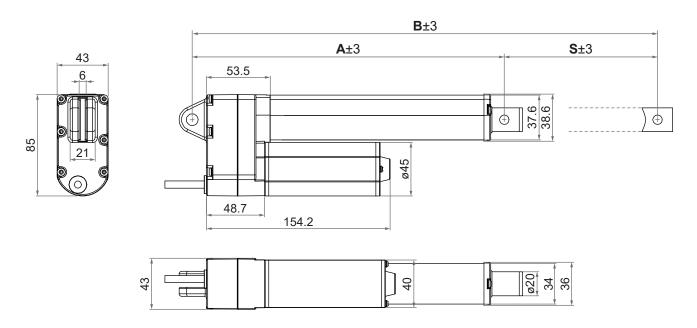
^{*} The typical speed or typical current means the average value neither upper limit nor lower limit. The performance curves are made with typical values.

Dimensions

- \bullet Available stroke (S) range = 50 \sim 600mm (±3mm)
- Retracted length (A) \ge S + 112mm + E + F + R + D (±3mm)

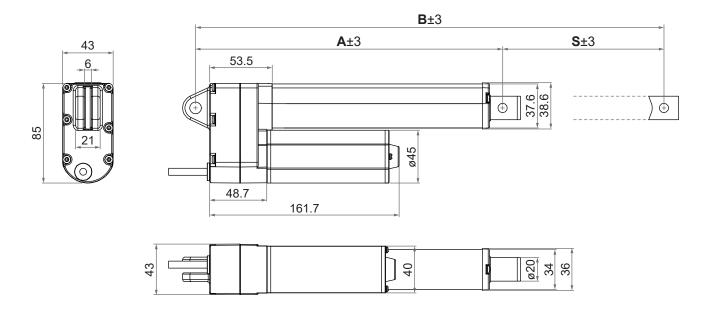
Stroke	E
50≦S≦150mm	0mm
151≦S≦300mm	10mm
301≦S≦400mm	20mm
401≦S≦500mm	30mm
501≦S≦600mm	40mm
Front connector code	F
1, 2	0mm
3	13mm
4	7mm
8	1mm
Rear connector code	R
0, 1	0mm
8	3mm
Safety option	D
0, P	0mm
S, A	10mm

- S≧601mm, please consult MOTECK sales representative for feasibility and the available.
- Extended length (B) = Retracted length (A) + Stroke (S) (±3mm)
- Drawing
 - Basic (Without positioning feedback)



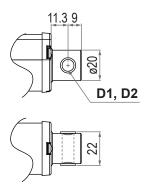
Unit: mm

- With dual Hall effect sensors for positioning

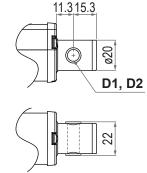


• Front connector

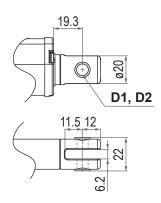
1: Metal solid



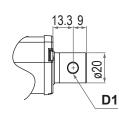
2: Drilled hole (IP66 cannot be selected)



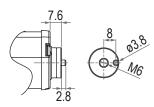
3: Metal slot



4: Plastic solid, black



8: M6 screw



Front connector code	Diameter of pivot without bushing (D1)	Diameter of pivot with bushing (D2)
1	ø8, ø10	ø8
2	ø8, ø10	ø8
3	ø8, ø10	ø8
4	ø8, ø10	N/A
8	N/A	N/A

Unit: mm

• Rear connector

0: Metal slot

0°

90°







1: Metal solid

0°





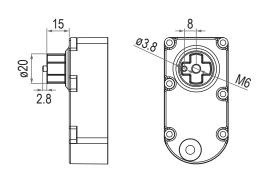
90°





8: M6 screw

0°



Rear connector code	Diameter of pivot without bushing (D1)	Diameter of pivot with bushing (D2)
0	ø8, ø10	ø8
1	ø8, ø10	ø8
8	N/A	N/A

Unit: mm

Compatibility

Product	Model	Application condition	MK32 spec	
	CM45, MD6C, MD6C-M	Max. 5A current per channel	Without positioning feedback With Moteck H-type or V-type DIN plug	
Control box	CM23, MD6C-M	Max. 5A current per channel	With dual Hall effect sensors for positioning With Moteck H-type or V-type DIN plug	
	CB5P-M, CM41-M	Max. 5A current per channel	With Moteck LR-type minifit plug	
Controller	CI72		Standard	
Accessory	MB22 mounting bracket (Fig. 1)	Connect the front or rear connectors of the actuator	Standard, mounting hole ø8mm or ø10mm	



Fig. 1

Remarks:

If the current limit of the selected control box is lower than the typical current of the actuator model under full load, the actuator could not be operated in full performance.

Cable Plug

Moteck H-type, V-type, LR-type or L3-type DIN plug

• Without positioning feedback

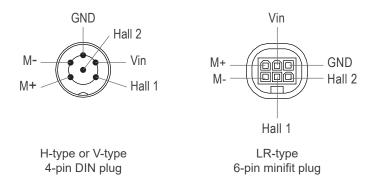


H-type or V-type 4-pin DIN plug



M+ M-

• With dual Hall effect sensors for positioning





Note:

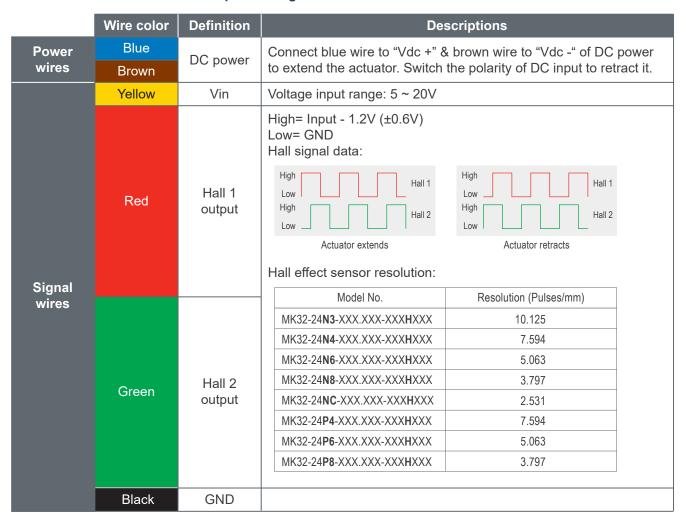
Connect M+ to "Vdc +" & M- to "Vdc -" of DC power to extend the actuator. Switch the polarity of DC input to retract it.

Cable with Flying Leads

• Without positioning feedback

	Wire color	Definition	Descriptions
Power	Blue	DC nower	Connect blue wire to "Vdc +" & brown wire to "Vdc -" of DC power
wires	Brown	DC power	to extend the actuator. Switch the polarity of DC input to retract it.

• With dual Hall effect sensors for positioning

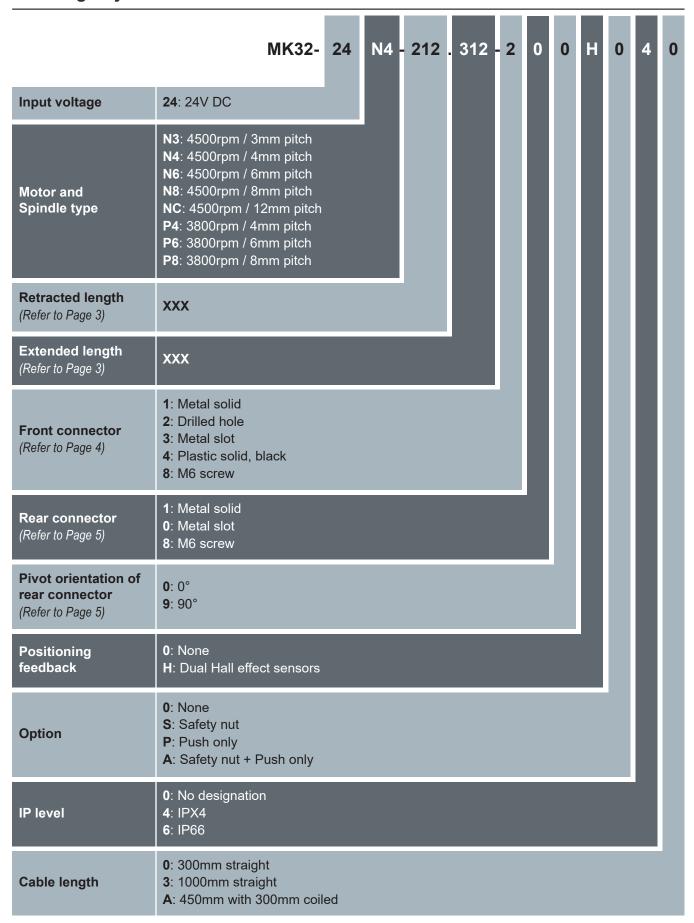


Certifications

MK32 actuator is compliant with the following regulations, in terms of the essential conformity requirements of EMC Directive of 2014/30/EU.

	Emission
'	EN 61000-6-3:2007+A1:2011+AC:2012 EN IEC 61000-6-1:2019

Ordering Key





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