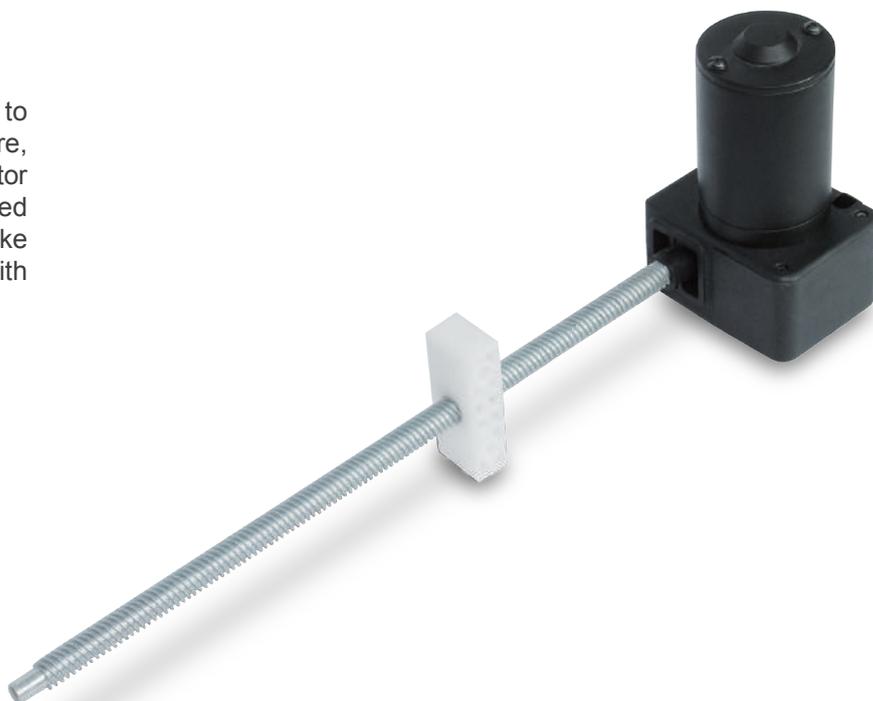


Actuator BDN60

BDN60 is a quiet and powerful actuator up to 6000N thrust, 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 BDN60 an ideal solution for recliners with lifting assistance.



Feature

- Main applications: Furniture, homecare, and fitness equipment
- Input voltage: 24V DC / 12V DC
- Max. load: 6000N (push) / 4000N (pull)
- Max. speed at no load: 33.3 mm/sec
- Max. speed at full load: 2.9 mm/sec @ 6000N
- Stroke: 100 ~ 1000 mm
- Max. current: 6A @ 12V DC, 3A @ 24V DC
- Noise level: \leq 53dB
- Color: Black
- Adjustable limit switches
- Without outer tube
- Duty cycle: 10%, max. 2 min. continuous operation in 20 min.
- Ambient operation temperature: -20°C ~ +65°C
- Certified: CE Marking, EMC Directive 2014/30/EU

Option

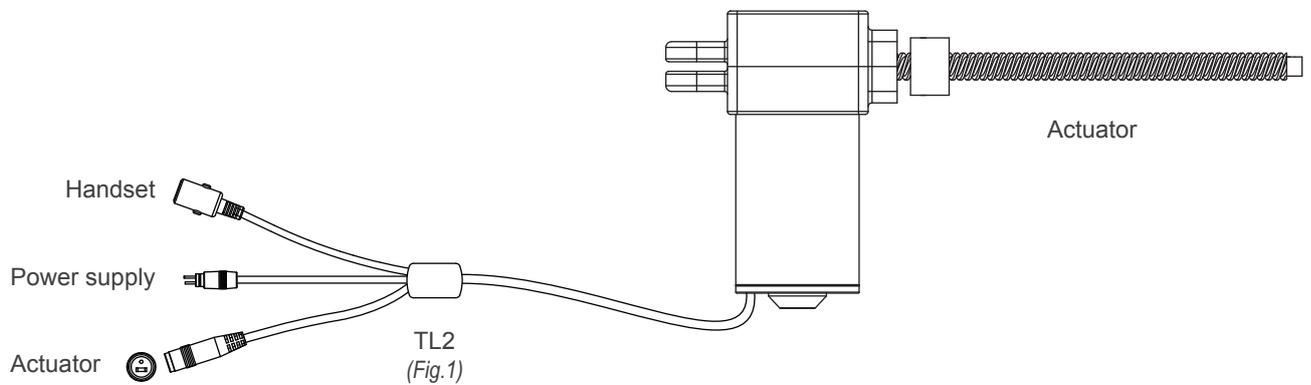
- Positioning signal feedback with Hall effect sensor x 1
- Positioning signal feedback with Hall effect sensor x 2
- Mechanical brake

Compatibility

Product	Model	BDN60 spec
Control box	T control, CS1, CS2, TR11, TL01, CB3T, CB4M, CBT2	Without positioning sensor feedback 4-pin MOTECK F-type DIN plug
	CB3T-SY, CB4M-S, CB4M-B	Positioning feedback with Hall effect sensor x 2 6-pin MOTECK F-type DIN plug
Handset	Depend on control box	Driven by control box
	H3B, HZ01	Special cable TL2 (Fig.1) *
	HB, H2G, HZ02, HZ03, HZ04, HZ05	Special cable DL1 (Fig.2) *
Accessory	TSW1 switching mode power supply	Special cable TL2
	TSW4 switching mode power supply	Special cable DL1
	T Connector (Extension cable of actuator and handset, to connect to power supply or transformer box)	4-pin MOTECK F-type DIN plug

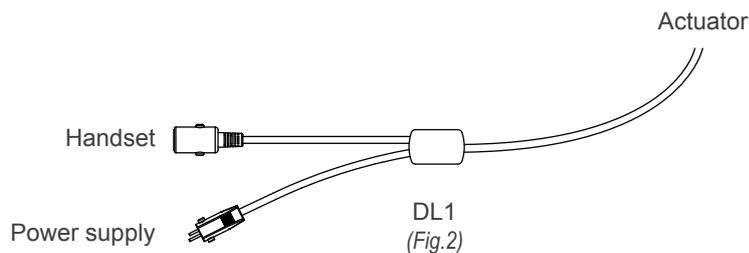
*** Remark 1:**

Special cable TL2 to connect to power supply and handset, without control box.



*** Remark 2:**

Special cable DL1 to connect to power supply and handset, without control box.

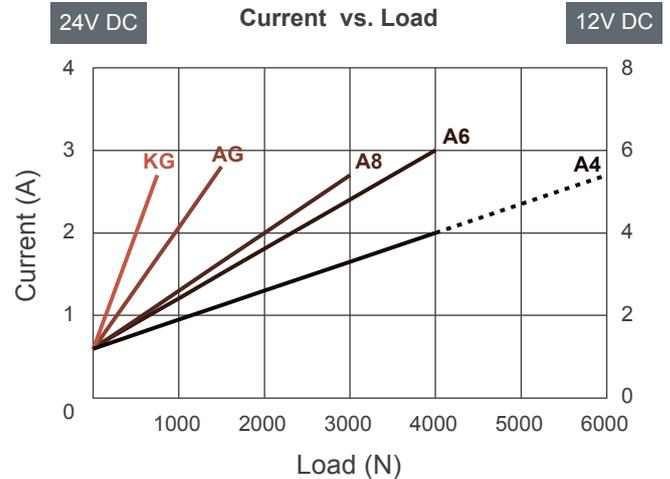
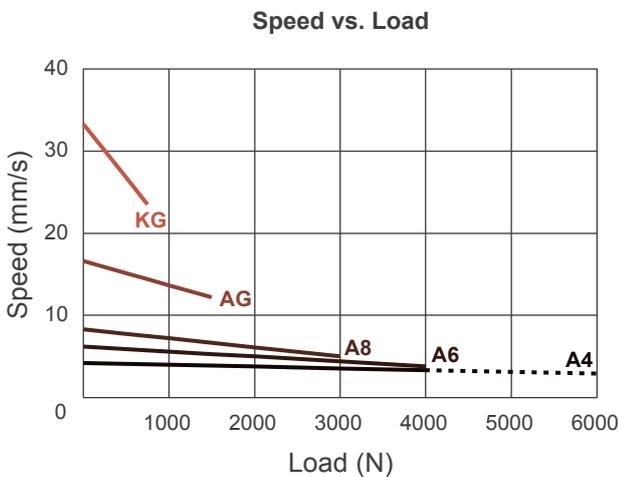
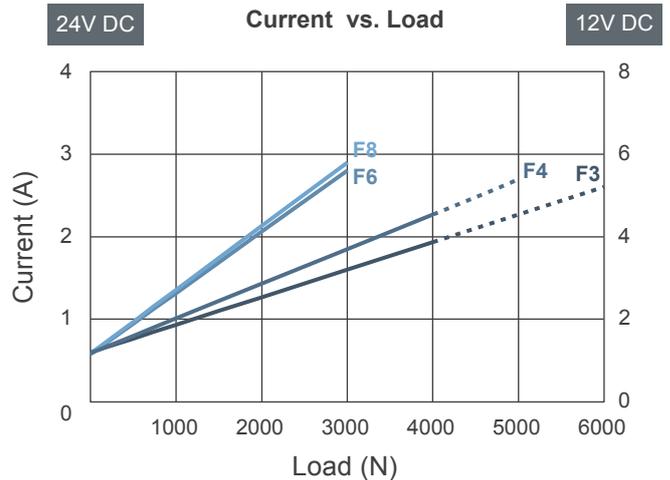
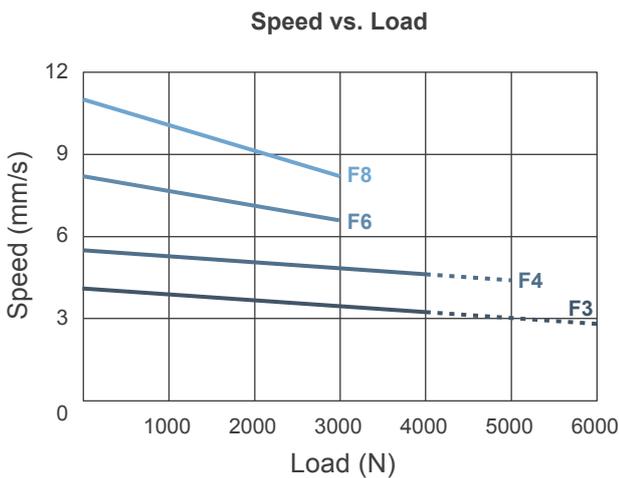


Performance Data

Model No.	Push Max. (N)	Pull Max. (N)	Self-locking ability (N)	Typical speed (mm/s)		Typical current (A)			
				No load	Full load	No load		Full load	
						12V	24V	12V	24V
BDN60-XX-F3-XXX.XXX...	6000	4000	6000	4.1	2.8	1.2	0.6	5.2	2.6
BDN60-XX-A4-XXX.XXX...	6000	4000	5000	4.2	2.9	1.2	0.6	5.4	2.7
BDN60-XX-F4-XXX.XXX...	5000	4000	5000	5.5	4.4	1.2	0.6	5.6	2.8
BDN60-XX-A6-XXX.XXX...	4000	4000	2500	6.2	3.8	1.2	0.6	6.0	3.0
BDN60-XX-F6-XXX.XXX...	3000	3000	2500	8.2	6.6	1.2	0.6	5.6	2.8
BDN60-XX-A8-XXX.XXX...	3000	3000	2000	8.3	5.0	1.2	0.6	5.4	2.7
BDN60-XX-F8-XXX.XXX...	3000	3000	2000	11.0	8.2	1.2	0.6	5.8	2.9
BDN60-XX-AG-XXX.XXX...	1500	1500	700	16.6	12.2	1.2	0.6	5.6	2.8
BDN60-XX-KG-XXX.XXX...	750	750	0	33.3	23.5	1.2	0.6	5.2	2.7

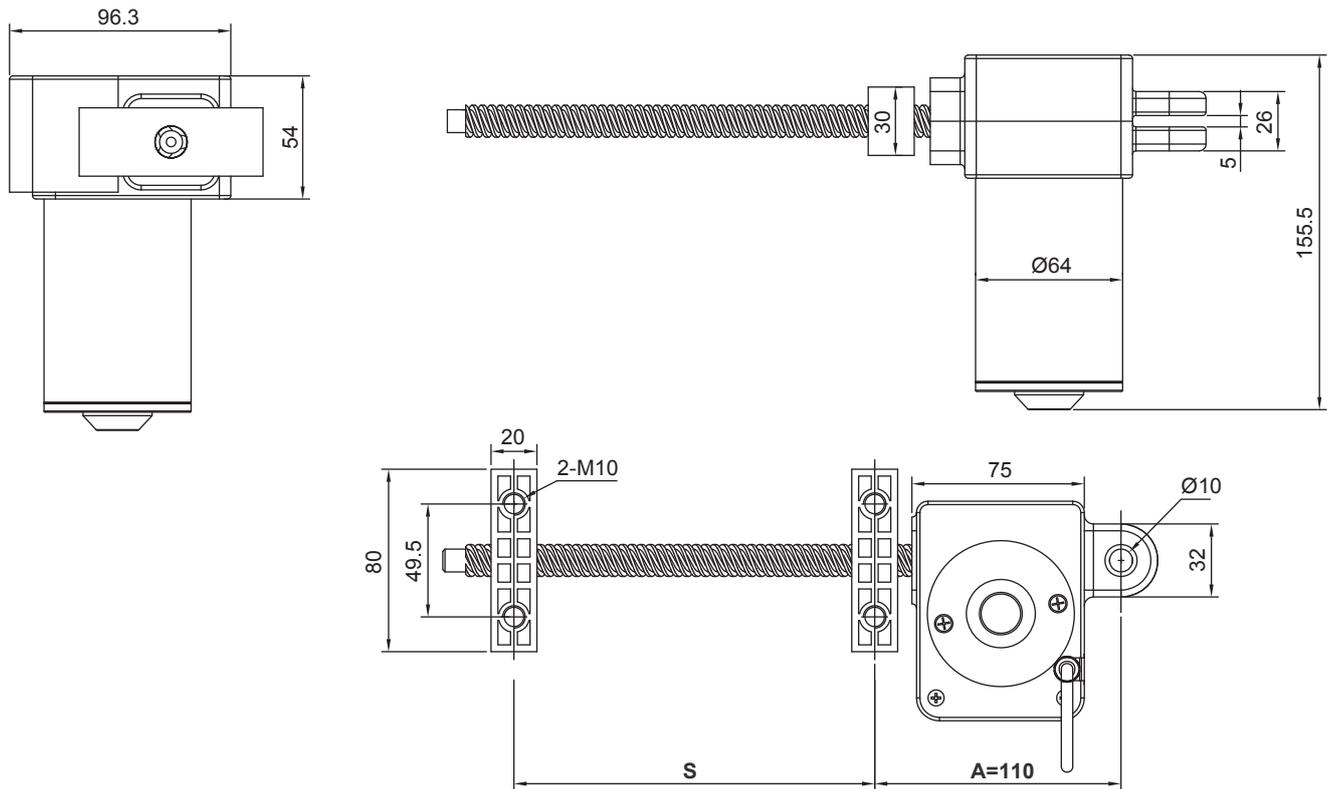
*** Remarks:**

Mechanical brake is available upon request, to further enhance the self-locking ability.



Push / Pull Load — Push Load - - -

Dimensions



Extended length = S + A

Retracted length (A) = 110 mm Min.

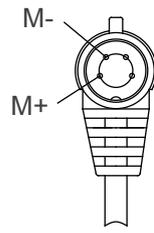
Available stroke (S) range = 100 ~ 1000 mm

Please refer to following table for max. stroke of each model.

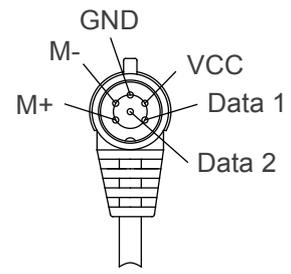
Model No.	Max. stroke (mm)
BDN60-XX-F3-XXX.XXX-CXX	300
BDN60-XX-A4-XXX.XXX-CXX	400
BDN60-XX-F4-XXX.XXX-CXX	400
BDN60-XX-A6-XXX.XXX-CXX	600
BDN60-XX-F6-XXX.XXX-CXX	600
BDN60-XX-A8-XXX.XXX-CXX	800
BDN60-XX-F8-XXX.XXX-CXX	800
BDN60-XX-AG-XXX.XXX-CXX	1000
BDN60-XX-KG-XXX.XXX-CXX	1000

Cable plug

MOTECK F-type DIN plug

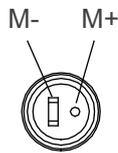


No sensor feedback



1x or 2x Hall sensors for positioning

Plug used on the second actuator connected to TL2 cable



Remarks:

Connect (M+) to '+' & (M-) to '-' of DC power, the actuator will extend.

Ordering Key

BDN60 - 24 - A4 - 115 - 515 - C 2 1 - HS2 - BK

Input voltage	12: 12V DC 24: 24V DC
Motor and Spindle type	A4 A6 A8 AG F3 F4 F6 F8 KG (Refer to Performance Data)
Retracted length	XXX (Refer to Dimensions)
Extended length	XXX (Refer to Dimensions)
Front connector	2: Plastic nut (Refer to Dimensions)
Rear connector	1: Plastic (Refer to Dimensions)
Positioning feedback	Blank: None HS1: Hall effect sensor x 1 HS2: Hall effect sensor x 2
Option	Blank: None BK: Mechanical brake

Terms of Use

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