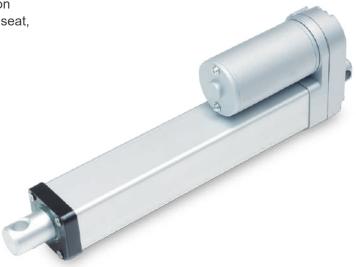


Actuator LD36

LD36 is a compact actuator with IP66 protection level, suitable for various applications with limited installation space, such as window opener, adjustable car driver seat, and other outdoor applications.



Features and Options

Main applications: Industrial, furniture

Standard features:

Input voltage: 12V DC / 24V DCMax. load: 1000N (Push / Pull)

• Speed at no load: 43.9mm/sec (Typical value)

• Speed at full load: 4.6mm/sec (Typical value @1000N loaded)

• Stroke: 50 / 100 / 150 / 200 / 250 / 300mm

Noise level: ≦60dB
IP level: IP66 / IP69K
Preset limit switches

• Duty cycle: 25%, max. 1 min. continuous operation in 4 min.

• Operating ambient temperature: -25°C ~ +65°C

• Certified: CE Marking, Electromagnetic Compatibility Directive 2014/30/EU

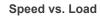
Options:

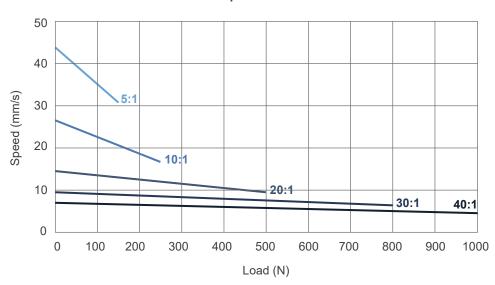
- Positioning signal feedback with Hall effect sensor x 1
- Positioning signal feedback with Hall effect sensor x 2
- Analog positioning feedback with Potentiometer (POT)

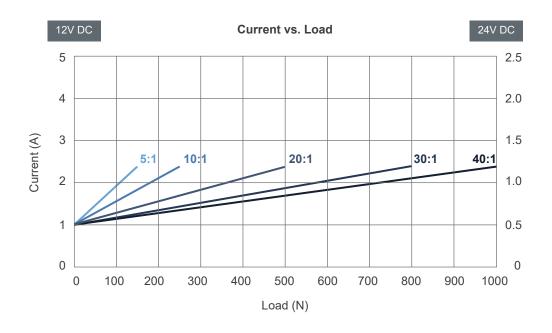
1

Performance Data

				* Typical sp	* Ty	* Typical current (A)			
Model No.	Gear ratio	Push/Pull Max. (N)	Self-locking ability (N)	No load	Full load	No load		Full load	
		- ()		No load	i un loau	12V	24V	12V	24V
LD36-XX- 05 -XXX	5:1	150	250	43.9	30.8	1.0	0.5	2.4	1.2
LD36-XX- 10 -XXX	10:1	250	340	27.6	16.8	1.0	0.5	2.4	1.2
LD36-XX- 20 -XXX	20:1	500	680	14.6	9.5	1.0	0.5	2.4	1.2
LD36-XX- 30 -XXX	30:1	800	1020	9.5	6.3	1.0	0.5	2.4	1.2
LD36-XX- 40 -XXX	40:1	1000	1530	7.0	4.6	1.0	0.5	2.4	1.2







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

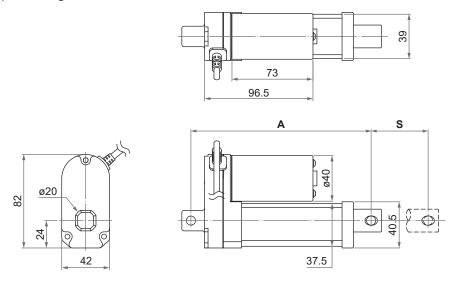
• Retracted length (A)

Option	Front connector	Stroke (S)					
Option	code	50	100	150	200	250	300
Decis or	1	158	209	260	311	362	413
Basic or with Hall sensor	3	199	250	301	352	403	454
	6	168.5	219.5	270.5	321.5	372.5	423.5
	1	195	246	297	348	399	450
With POT	3	236	287	338	389	440	491
	6	205.5	256.5	307.5	358.5	409.5	460.5

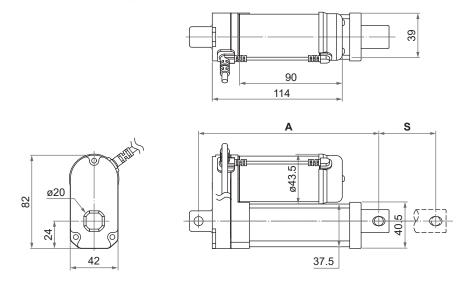
(tolerance: ±3mm)

• Drawing

- Basic, without positioning feedback.

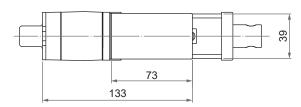


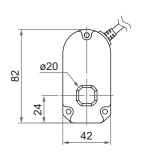
- With Hall effect sensor positioning feedback

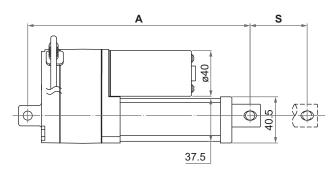


Unit: mm

- With potentiometer (POT) absolute positioning feedback







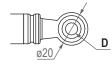
• Front connector

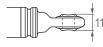
1: Drilled hole



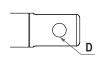


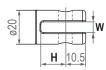








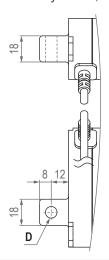




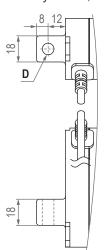
Front connector code	Diameter of pivot without bushing (D)	Slot width (W)	Slot depth (H)
1	ø6.4, ø8, ø10	N/A	N/A
3	ø8	N/A	N/A
6	ø8, ø10	6	15

• Rear connector

0: Zinc alloy clevis, 0°







Rear connector code	Diameter of pivot without bushing (D)	Slot width (W)	Slot depth (H)
0, 9	ø6.4, ø8, ø10	N/A	N/A

Compatibility

Product	Model	LD36 spec	
Controller	CI72	Standard	
Accessory	MB22 mounting bracket (Fig. 1)	Standard, mounting hole ø6.4mm, ø8mm or ø10mn	



Fig. 1

Cable with Flying Leads

• Basic, without positioning feedback.

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

• With potentiometer (POT) absolute positioning feedback

	Wire color	Definition	Desc	riptions	
Power wires	Red	DC power	Connect red wire to "Vdc +" & black wire to "Vdc -" of DC power to extend the actuator. Switch the polarity of DC input to retract it.		
	Black		. , ,		
	Yellow	Vin	Input voltage 70V max.		
Signal Blue POT		POT output	1. Potentiometer specification: - 10K ohm, 10 turns Tolerance ±5% 2. Output voltage: The voltage (resist increases linearly from about 0 will decreases when it retracts. B W 3. There are different resolutions according to the content of th	hen the actuator extends, and Actuator extends	
wires			Stroke	Resistance (tolerance: ±0.3KΩ)	
			50mm	0.3 ~ 4.8K	
			100mm	0.3 ~ 5.0K	
			150mm	0.3 ~ 4.5K	
			200mm	0.3 ~ 4.9K	
			250mm	0.3 ~ 4.8K	
			300mm	0.3 ~ 4.8K	
			LD36 only utilizes half the num this POT part.	ber of turns (about 5 turns) of	
	White	GND			

• With single Hall effect sensor positioning feedback

	Wire color	Definition	Descriptions		
Power wires	Red Black	DC power	Connect red wire to "Vdc +" & black wire to "Vdc -" of DC power to extend the actuator. Switch the polarity of DC input to retract it.		
	Yellow	Vin	Voltage input range: 5 ~ 20V		
Signal wires	Blue	Hall output	The signal wires output should connect the pull-up resistor to the operating voltage (Vcc) of the system. (10KΩ resistor is recommended) Wiring: Vin= 5-20V Hall GND High= Determined by Vcc and the pull-up resistor. Low= GND Hall signal data: High Low Hall Hall		
			Gear ratio Resolution (pulses/mm)		
			5:1 2.27		
			10:1 3.62		
			20:1 6.86		
			30.1 10.57		
			40:1 14.27		
	White	GND			

• With dual Hall effect sensors positioning feedback

	Wire color	Definition	Descriptions
Power wires	Red Black	DC power	Connect red wire to "Vdc +" & black wire to "Vdc -" of DC power to extend the actuator. Switch the polarity of DC input to retract it.
	Yellow	Vin	Voltage input range: 5 ~ 20V
Signal	Blue Hall 1 o		The signal wires output should connect the pull-up resistor to the operating voltage (Vcc) of the system. (10KΩ resistor is recommended) Wiring: Vin= 5-20V Vcc ≦30V Vin= 5-20V Vcc ≦30V Hall 1 GND High= Determined by Vcc and the pull-up resistor. Low= GND Hall signal data: - A type High Low High Low High Low Actuator extends
wires	Green	Hall 2 output	Actuator extends - B type High Low High Low High Low Actuator retracts Actuator extends Actuator retracts Hall effect sensor resolution: Gear ratio Resolution (pulses/mm) Hall signal data type 5:1 2.27 B type 10:1 3.62 A type 20:1 6.86 A type 30.1 10.57 A type 40:1 14.27 B type
	White	GND	

Certifications

LD36 actuator is compliant with the following regulations, in terms of the essential conformity requirements of EMC Directive of 2014/30/EU.

Emission	lmmunity
EN 55014-1:2006+A1:2009+A2:2011	EN 55014-2:1997+A1:2001+A2+:2008 Catagory I

Ordering Key

