

# Installation and connection manual

LD3-12-5-K3 / LD3-5-10-K3

## Technical parameters

Voltage	12/24V DC Motor
Max. Load	150 N
No load speed	43.9 mm/s
Rated speed	36.5 mm/s
Stroke	50, 100, 150, 200, 250, 300 mm
Duty Cycle	25%
Gear Ratio	5:1
Protection class	IP54

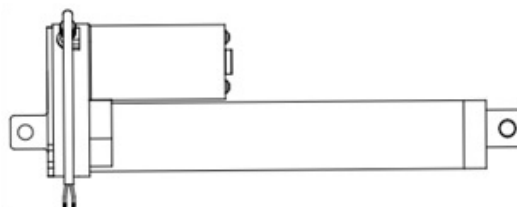
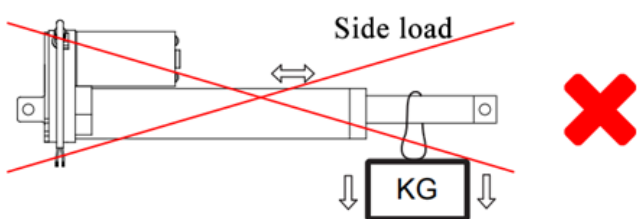
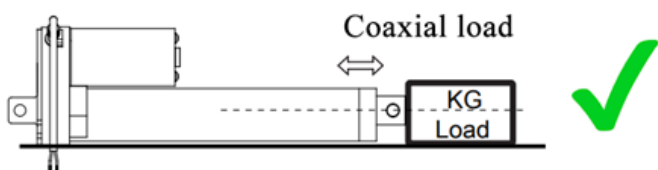
Aluminum Extension & Outer Tubes

Clevis to Clevis Mounting

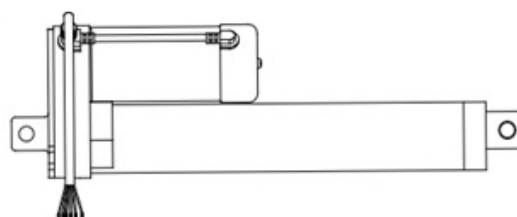
The actuator will extend when the red wire connects to positive electrode and black wire to negative, reverse them for retraction.

## Load diagrams

The load should be centered on the operating direction. Do not apply side load.



Standard



With Hall sensors

## Note

The appliance is not to be used by children or persons with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction. Children should be supervised not to play with the appliance.

## Important

- Disconnect the mains plug before set up.
- Use correct DC voltage.
- Working temperature : -26 C~65 C  
Duty Cycle of each motor : 25%, 2.5 minutes
- continuous operation followed by 7.5 minutes rest.



## Connection

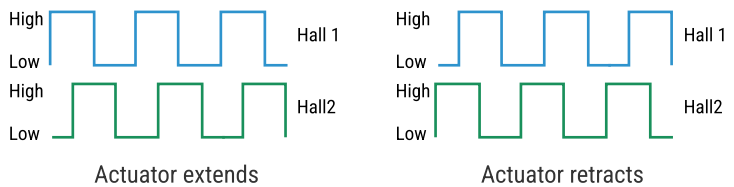
Power wires	Red	DC Power	Connect red wire to "Vdc +" & black wire to "Vdc -" of DC power to extend the actuator. Switch the polarity of DC input to retract it.
	Black		
Hall sensors signal wires	Yellow	V <sub>in</sub>	Voltage input range: 3.5 ... 20V
	Blue	Hall sensor 1 output	The signal wires output should connect the pull-up resistor to the operating voltage (V <sub>cc</sub> ) of the system. (10KΩ resistor is recommended)
	Green	Hall sensor 2 output	
	White	GND	

### Wiring

High= Determined by V<sub>cc</sub> and the pull-up resistor.



### Hall signal data



## Connection diagram

