

LINACT-Q Linear Actuator

- Typical Applications: Furniture, Toys, Campers, Instrument Aid Setting, Caravan, Louvers, Window Openers, locks, Etc.
- DC Mini Permanent magnet motor
- Speeds from 7.5mm/s up to 45mm/s (Speed depend on the force selected)
- Standard Stroke Length: 30mm - 150mm



Mechanical Data

- Operating temperature -10°C~+65°C
- Protection – IP66
- Standard Voltage: 12Vdc
- Built in Limit Switches
- Potentiometer Feedback (Optional)
- CE Certified

Force Data

- Max Load – up to 800N (80Kg)
- 25% Duty Cycle at full load
- *Don't exceed four minutes continuous working with full load at 20°C.

Transmission Parameters

Standard Units							
Item	Stroke Length (mm)	Max Dynamic Load (N)	Max Self-Locking (N)	Speed (mm/s) ±10%		Current A (Normal Temperature)	
						12V	
				No Load	Full Load	No Load	Full Load
LINACT-Q-30-14.5-12	30	500	800	16.5	14.5	0.8	2.0
LINACT-Q-30-45-12	30	100	150	60	45	1.2	3.0
LINACT-Q-100-45-12	100	100	150	60	45	1.2	3.0
LINACT-Q-100-7.5-12	100	800	1 200	8.5	7.5	0.8	2.5
LINACT-Q-150-45-12	150	100	150	60	45	1.2	3.0
LINACT-Q-150-14.5-12	150	500	800	16.5	14.5	0.8	2.0

Feedback - Potentiometer							
Item	Stroke Length (mm)	Max Dynamic Load (N)	Max Self-Locking (N)	Speed (mm/s) ±10%		Current A (Normal Temperature)	
						12V	
				No Load	Full Load	No Load	Full Load
LINACT-Q-50-12-12-POT	50	500	800	16.5	14.5	0.8	2.0
LINACT-Q-100-45-12-POT	100	100	150	60	45	1.2	3.0
LINACT-Q-100-12-12-POT	100	500	800	16.5	14.5	0.8	2.0

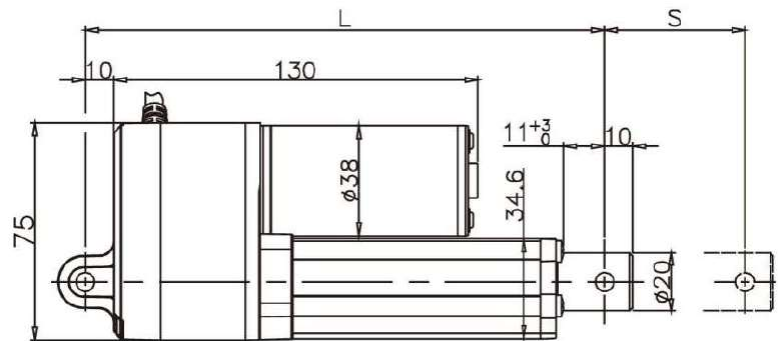
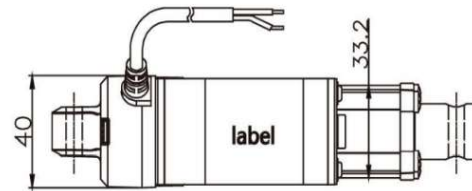
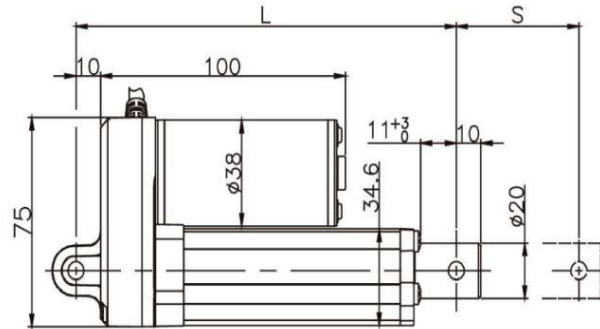
Dimensional Drawing

Dimensions: Standard Unit

30mm to 150mm Stroke

$$L = S + 105\text{mm}$$

Mounting Holes 90° (Standard)

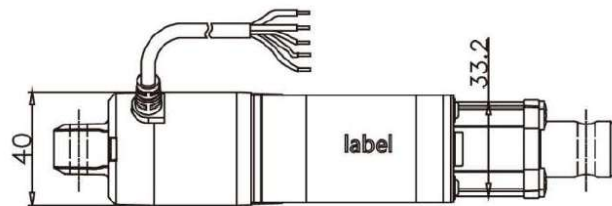


Dimensions: With Potentiometer

50mm to 100mm Stroke

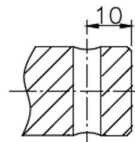
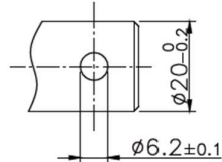
$$L = S + 135\text{mm}$$

Mounting Holes 90° (Standard)

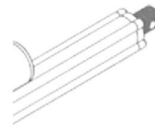


Front and Rear End

Front End:

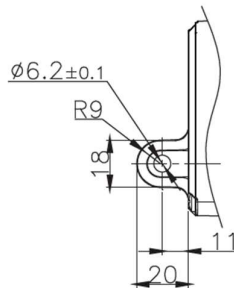


F01



$1 = 90^\circ$

Rear End:



R01

Hole Direction:

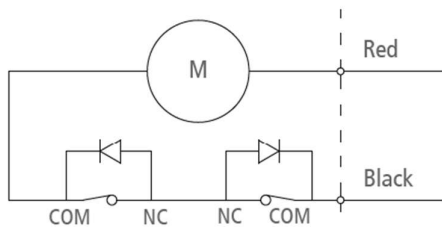


$1 = 90^\circ$

Wiring Diagram

Standard Unit:

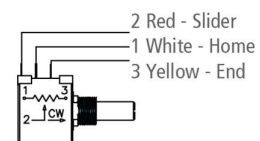
Standard units have limit switches that shut off the motor automatically at the end of its travel.



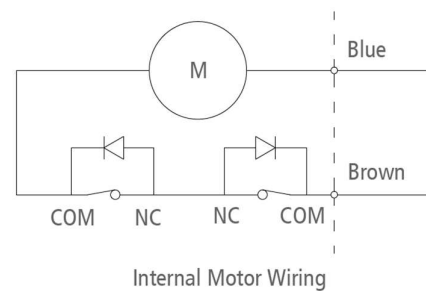
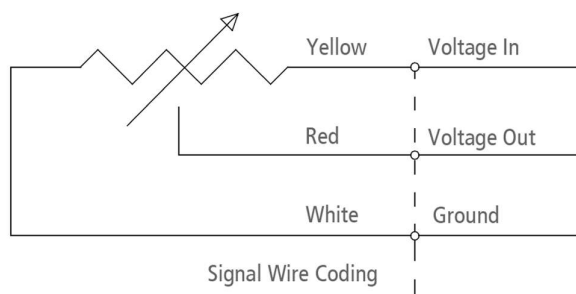
Wiring		
	Black	Red
Extend	-	+
Retract	+	-

Potentiometer Feedback:

Resistance Value per mm
0.030 K Ω



Connect 1+2, resistance value increase, actuator extend.





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Stroke	How far the rod extends outwards from the body. The difference between fully extended length and fully retracted length.
Installation Length	The fully closed length, measured from Centre of the Rear Mounting hold to centre of the Front Mounting Hole
Dynamic Force	The max force that the actuator is able to carry when it is moving.
Self-Locking	The max force that the linear actuator is able to hold when it stops.
Weather Protection	The first digit: dust protection. The second digit: liquid protection
Duty Cycle	Continuous working time 'a', rest time 'b'. Duty cycle is $a/(a+b) \times 100\%$
Speed	Include free-load speed and full-load speed.
Potentiometer	Potentiometer is a three-terminal variable resistor with a rotating contact which is used to measure the displacement of actuators.