Product Data Sheet



Standard Features:

- Compact design
- All aluminum frame and extension tube
- Nominal stroke lengths: 2" [50mm], 4" [100mm], 6" [150mm], 8" [200mm], 10" [250mm], 12" [300mm]
- Input voltage: 12VDC, 24VDC
- Standard gear ratio: 20:1 [other ratios available]
- Rated load range: 34 lbs. [150 Newtons] -to- 225 lbs. [1000 Newtons]
- Maximum static load: 562 lbs. [2,500 Newtons]
- Maximum current draw: 3.2 Amps @ 12 VDC
- Speed at no load: 0.28 in/sec [7 mm/sec] -to- 1.73 in/sec [43.9 mm/sec]
- Speed at full load: 0.22 in/sec [5.5 mm/sec] -to- 1.44 in/sec [36.5 mm/sec]
- Standard preset limit switches at both ends of stroke
- Noise level: ≤70dB
- Mounting hole diameter (both ends): 1/4" [6.4mm]
- Duty cycle: 25% or 1 min continuous operation in 4 min.
- Working temperature: -13F [-25C] +149F [+65C]
- IP rating: IP65

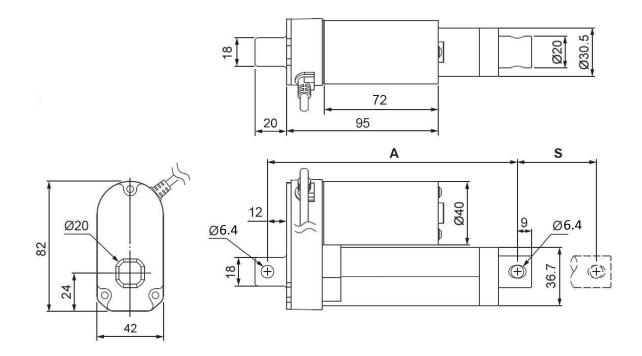
Accessories:

- Mounting brackets
- Direction reversing switches
- Wired and wireless controllers
- Direction reversing relays





Dimensions - Actuator Without Potentiometer

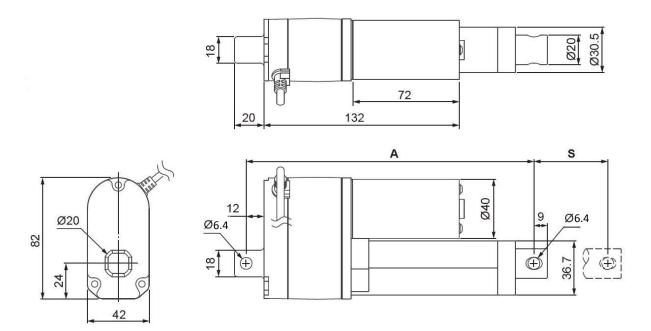


Nominal Stroke	2	"	4"	,	6'	,	8'	,	10	"	12	, ,,
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
Actual Stroke (S)	1.97	50	3.94	100	5.91	150	7.87	200	9.84	250	11.81	300
Retracted Length (A)	6.22	158	8.23	209	10.24	260	12.24	311	14.25	362	16.26	413
Extended Length	8.19	208	12.17	309	16.14	410	20.19	511	24.09	612	28.07	713





Dimensions - Actuator With Potentiometer



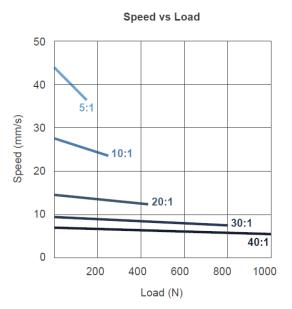
Nominal Stroke	2	"	4"	,	6'	,	8'	,	10	"	12	"
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
Actual Stroke (S)	1.97	50	3.94	100	5.91	150	7.87	200	9.84	250	11.81	300
Retracted Length (A)	7.68	195	9.69	246	11.69	297	13.70	348	15.71	399	17.72	450
Extended Length	9.65	245	13.62	346	17.60	447	21.57	548	25.55	649	29.53	750

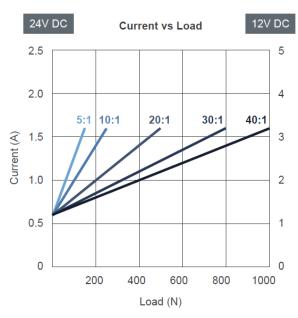


Performance Data

Gear Ratio	Max Load/Dynamic		Speed/No	o Load	Speed/Max Load		
	Lbs. [US]	Newtons	inches/sec	mm/sec	inches/sec	mm/sec	
5:1	34	150	1.73	43.9	1.44	36.5	
10:1	56	250	1.09	27.6	0.93	23.5	
20:1	112	500	0.57	14.6	0.48	12.3	
30:1	180	800	0.37	9.5	0.30	7.5	
40:1	225	1000	0.28	7.0	0.22	5.5	

Coor	Typical Current (A)						
Gear Ratio	No	Load	Full Load				
Rallo	12 VDC	24 VDC	12 VDC	24 VDC			
5:1	1.2	0.6	3.2	1.6			
10:1	1.2	0.6	3.2	1.6			
20:1	1.2	0.6	3.2	1.6			
30:1	1.2	0.6	3.2	1.6			
40:1	1.2	0.6	3.2	1.6			





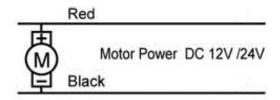
Note: Above graphs and performance data do not apply to the "Q" (quiet) option.



Concentric International 1901 Bell Ave., Suite 18, Des Moines, IA 50315 www.concentricintl.com Rev. 20171208



Electrical



Without Potentiometer

Red + // Black - : Extend Red - // Black + : Retract

With Potentiometer

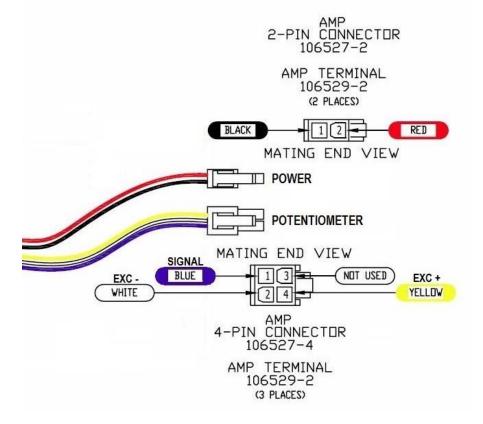
Red + // Black - : Retract Red - // Black + : Extend

1922	Yellow	(Green)	V input
10K	Blue	(Brown)	Rs output
٠Ţ_	White		GND

Value of POT						
Stroke (in / mm)	Resistance					
1.97 / 50	0.3 – 9.3K					
3.94 / 100	0.3 – 9.7K					
5.91 / 150	0.3 – 8.6K					
7.87 / 200	0.3 – 9.6K					
9.84 / 250	0.3 – 9.3K					
11.81 / 300	0.3 – 9.3K					
Tolerance:	Tolerance: +/- 0.3K					

Values in this table are an approximation. Actual values will vary due to actuator configuration and construction.

Connector Wiring





Concentric International 1901 Bell Ave., Suite 18, Des Moines, IA 50315 www.concentricintl.com Rev. 20171208

Ordering Key

LACT	
Standard Stroke (nominal) 2: 2" [50mm] 4: 4" [100mm] 6: 6" [150mm] 8: 8" [200mm] 10: 10" [250mm] 12: 12" [300mm] Additional stroke lengths available	
Potentiometer P: Potentiometer Blank: No Potentiometer	
Input Voltage 12: 12 VDC 24: 24 VDC	
Gear Ratio 05: 5:1 – Not available with "Q" option 10: 10:1 – Not available with "Q" option 20: 20:1 – Standard Gear Ratio 30: 30:1 40: 40:1 – Not available with "Q" option Not all gear ratios stocked	
Options M = Metal pinion gear Q = Quiet gear set (plastic)	

Terms of Use

The user is responsible for determining the suitability of Concentric International products for specific applications. Due to continuous development in order to improve its products, Concentric International products are subject to change without prior notice. Concentric International reserves the right to discontinue the sale of any products at any time.

