Actuator
LD12

LD12 is a compact in-line actuator with small overall dimensions, specially designed for applications where installation space is limited. In addition to high IP protection level, all parts by appearance are made in stainless steel “SUS304”, better against corrosion, such as naval architecture, food engineering and other industrial automation.

Feature

- Main application: Industrial
- Input voltage: 24V DC / 12V DC
- Max. load: 1500N (push / pull)
- Max. speed at no load: 17.4 mm/sec
- Max. speed at full load: 5 mm/sec @ 1500N
- Stroke: 50 ~ 400 mm
- Max. current: 2A @ 24V DC
- Positioning signal feedback with Hall effect sensor x 2
- IP Protection level: IP66, IP69K
- Duty cycle:10%, max. 2 min. continuous operation in 20 min.
- Ambient operation temperature: -20°C ~ +70°C
- Certified: CE Marking, EMC Directive 2014/30/EU

Option

- Without Hall effect sensor

تلفن : (021) 33913364 - 33951660
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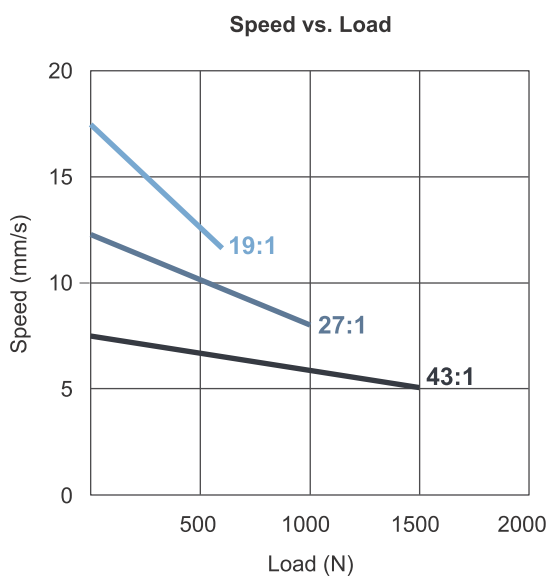
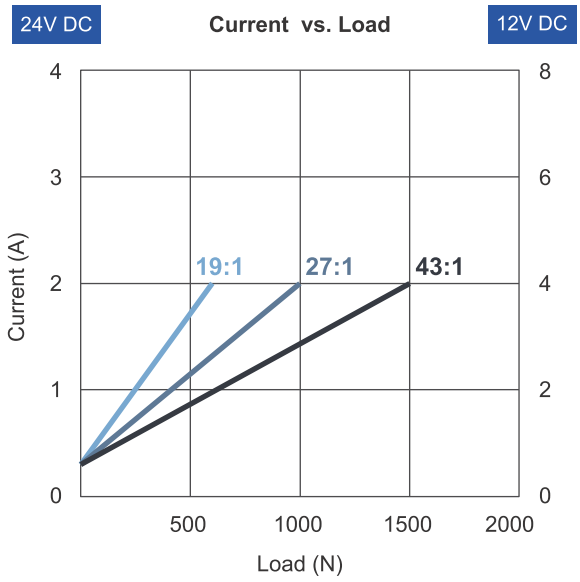
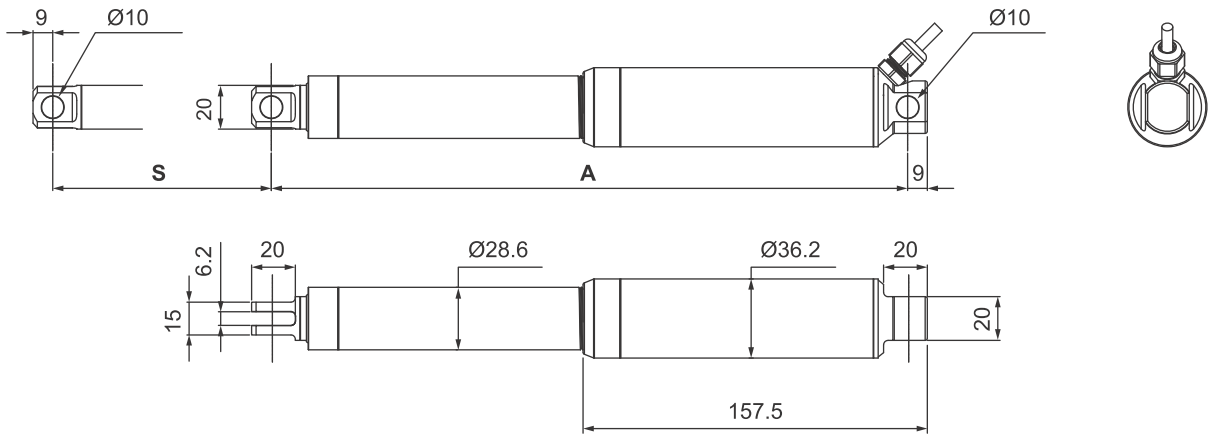
Performance Data

Model No.	Gear ratio	Push / Pull load Max. (N)	Speed (mm/s)		Current (A)			
			No load	Full load	No load		Full load	
					12V	24V	12V	24V
LD12-XX**19**-XXX.XXX-000XX	19:1	600	17.4	11.7	0.6	0.3	4.0	2.0
LD12-XX**27**-XXX.XXX-000XX	27:1	1000	12.3	8.0	0.6	0.3	4.0	2.0
LD12-XX**43**-XXX.XXX-000XX	43:1	1500	7.5	5.0	0.6	0.3	4.0	2.0





Dimensions

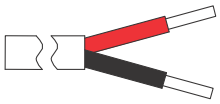


Stroke (S)	50	100	150	200	250	300	350	400
Retracted Length (A)	237	287	337	387	437	487	537	587
Extended Length (B)	287	387	487	587	687	787	887	987

Available stroke (S) range = 50 ~ 400 mm
Retracted length (A) ≧ S + 187 mm
Extended Length (B): S + A

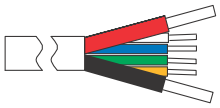
Wiring

Basic, without positioning feedback



Power	
Red	Black
M+	M-

With Hall effect sensor x 2



Power		Signal			
Red	Black	White	Blue	Green	Yellow
M+	M-	COM	Data 1	Data 2	VCC

Model No.	Resolution (pulses/mm)
LD12-XX**19**-XXX.XXX-000**H**X	9.56
LD12-XX**27**-XXX.XXX-000**H**X	13.50
LD12-XX**43**-XXX.XXX-000**H**X	21.45

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

Attentions

LD12 is without built-in mechanical limit switches, and is suggested to be used with Hall sensor feedback included. It's important that LD12 work with a control system that prevents the actuators from constantly hitting its internal end positions, which will reduce the actuator lifespan.

Ordering Key

LD12 -	24	43	- 237	. 287	- 0	0	0	H	1

Input voltage	**12**: 12V DC **24**: 24V DC
Gear ratio	**19**: 19:1 (600N) **27**: 27:1 (1000N) **43**: 43:1 (1500N)
Retracted length	**XXX** (Refer to Dimensions)
Extended length	**XXX** (Refer to Dimensions)
Reserved	**0**: no meaning
Reserved	**0**: no meaning
Reserved	**0**: no meaning
Positioning feedback	**H**: Hall effect sensor x 2 (default) **0**: None
Cable length	**1**: 1000 mm straight **2**: 1500 mm straight