

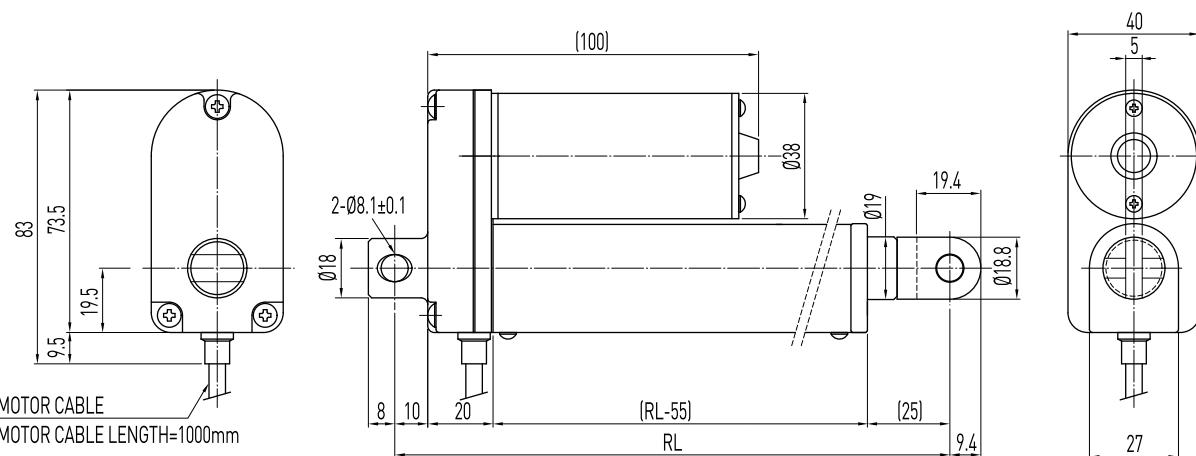
Linear Actuator

LAS Series

10. HIWIN LAS Series (1)

LAS1

CE



- RL = S+119
- Stroke ≤ 250
- RL = S+169
- Stroke > 250
- RL : Retracted length
- S : Stroke length

Table 10.1 Specifications

Screw type	ACME
Weight*	1.04kg
Protection	IP54
Compatible controller	Compatible with all controllers (*Notice the type of connector: Audio/DIN 4pin)
Working temp.	+5°C~40°C

* Stroke length 200mm

Option:

- (1) IP65
- (2) Back fixture turned 90
- (3) Rod end with flat connector
(RL=S+110, S≤250 / RL=S+160, S>250) →
- (4) 36VDC motor
- (5) External reed switches
- (6) Plastic gear (Max. load: 800N)
- (7) Plug : DIN 4PIN plug / Stereo plug / Mono plug

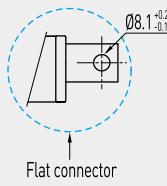
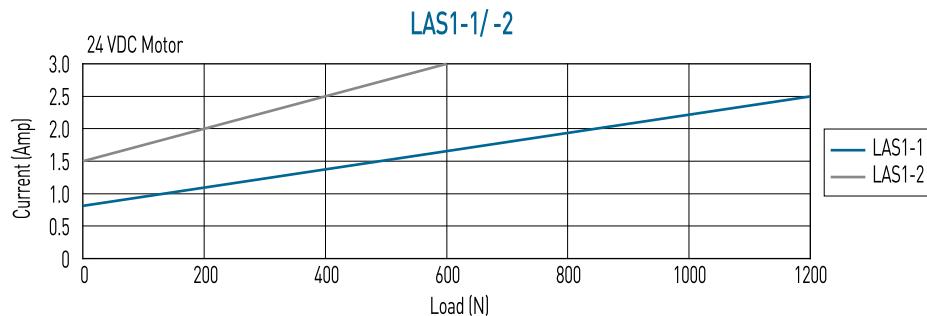
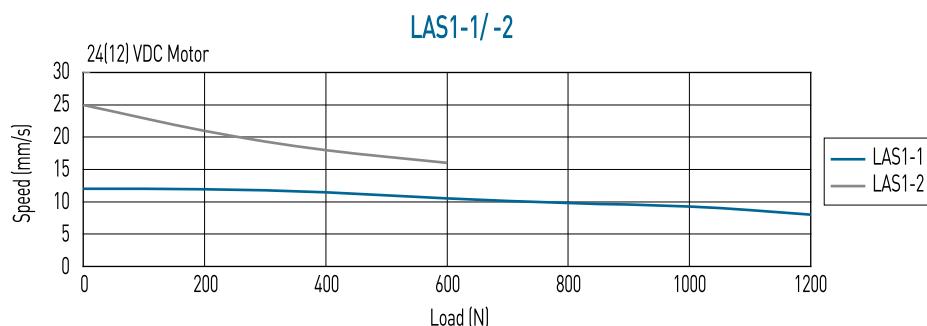


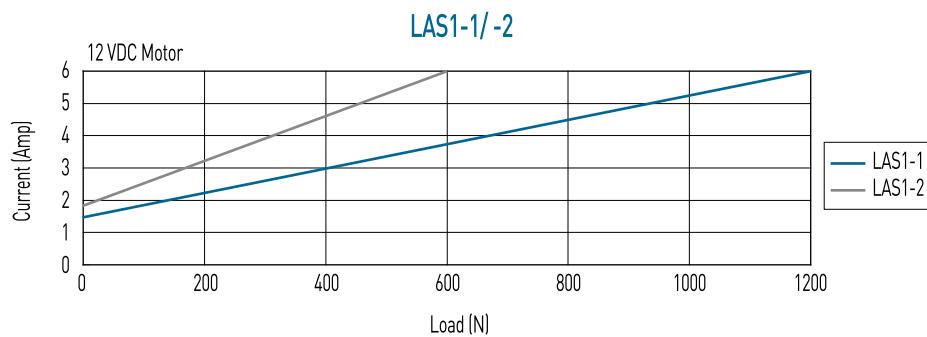
Table 10.2 LAS1 Specifications

Model	Thrust max. (N)	Pulling max. (N)	Holding max. (N)	Speed (mm / s) Load = Max. / Load = 0	Standard stroke (mm) : S					Duty cycle %	Current max.	
					50	100	150	200	250	10	12VDC	24VDC
LAS1-1	1200	1200	800	8 / 12	50	100	150	200	250	10	6	2.5
LAS1-2	600	600	300	16 / 25	50	100	150	200	250	10	6	3

*Min. input power = Voltage x Current max.



**Note: The test results are obtained by using the 24VDC power supply.



**Note: The test results are obtained by using the 12VDC power supply.

Ordering Information

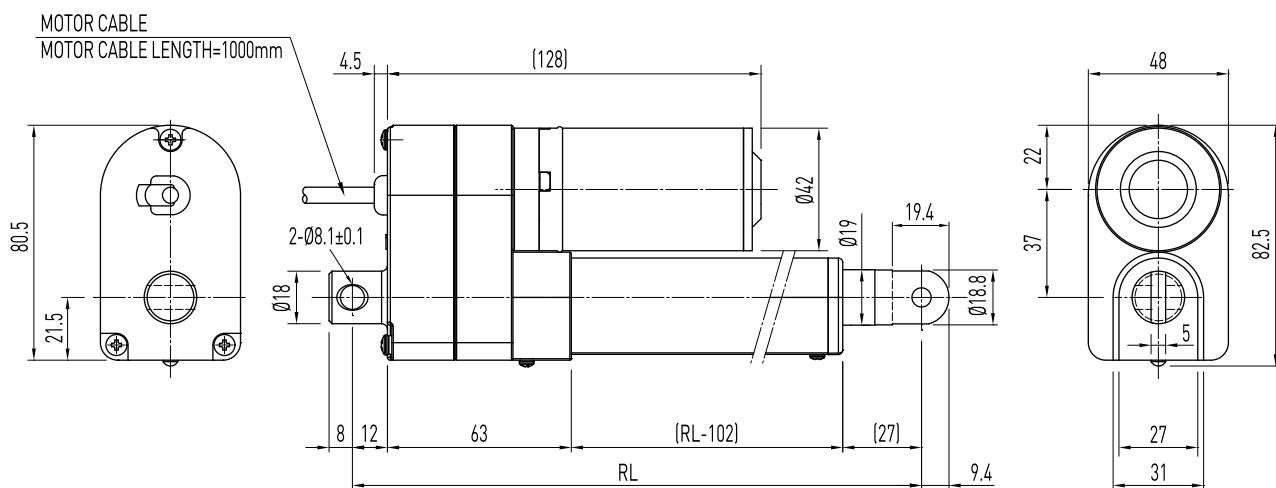
LAS1 - 1 - 1 - 200 - 24 G E												
Model number	0 : Without internal limit switches	1 : Basic model complete with internal limit switches	Stroke length	Voltage	Color	Special models according to the customer's requirement (Ignore this part of the serial number if not available)						
						B : Black	G : Gray					

Linear Actuator

LAS Series

11. HIWIN LAS Series (2)

LAS2



- RL = S+146
- Stroke \leq 250
- RL = S+196
- Stroke $>$ 250
- RL: Retracted length
- S: Stroke length

Table 11.1 **Specifications**

Screw type	ACME
Weight*	1.3kg
Protection	IP54
Compatible controller	Compatible with all controllers (*Notice the type of connector: Audio/DIN 4pin)
Working temp.	+5°C~40°C

* Stroke length 200mm

Option:

- (1) IP65
- (2) Position feedback
 - 1: Potentiometer 10k ohm [RL = S+154, S \leq 250 / RL = S+204, S > 250]
 - 2: Optical sensor: PNP (standard), NPN, TTL
- (3) 36VDC motor
- (4) Back fixture turned 90°

Table 11.2 **Position feedback specifications (Optical Sensor)**

Supply voltage	24VDC	12VDC	5VDC
Output	High level 24VDC Low level 0.2V/40mA PNP* PS. Open collector	High level 12VDC Low level 0.2V/40mA PNP* PS. Open collector	TTL

* Low noise

- [5] Rod end with flat connector (RL = S+133, S \leq 250 / RL = S+183, S > 250)
- [6] Potentiometer+Rod end with flat connector
(RL = S+141, S \leq 250 / RL = S+191, S > 250)
- [7] Plug: DIN 4PIN plug / Stereo plug / Mono plug
- [8] UL version

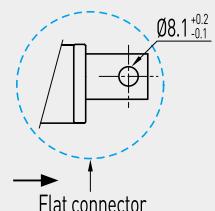
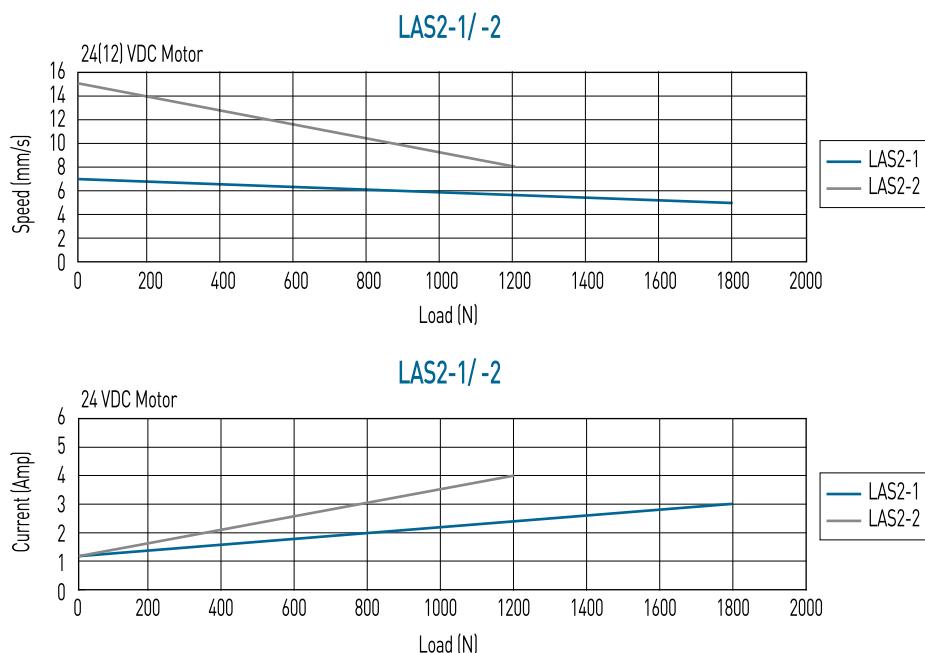


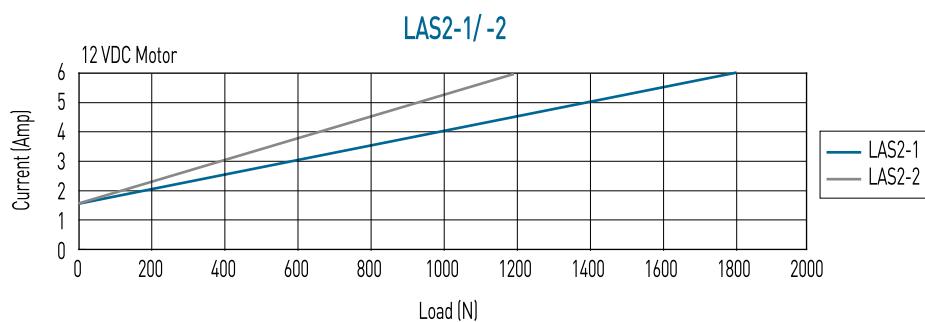
Table 11.3 LAS2 Specifications

Model	Thrust max. (N)	Pulling max. (N)	Holding max. (N)	Speed (mm / s) Load = Max. / Load = 0	Standard stroke (mm) : S					Duty cycle %	Current max. (A) 12VDC	Optical Sensor Resolution (mm/pulse)	Potentiometer Resolution (0hm/mm)	
LAS2-1	1800	1200	1800	4.5 / 7	50	100	150	200	250	10	6	3	0.3175	21
LAS2-2	1200	1200	1000	8 / 15	50	100	150	200	250	10	6	4	0.635	10.5

*Min. input power = Voltage x Current max.



**Note: The test results are obtained by using the 24VDC power supply.



**Note: The test results are obtained by using the 12VDC power supply.

Ordering Information

LAS2 - 1 - 1 - 200 - 24 G E

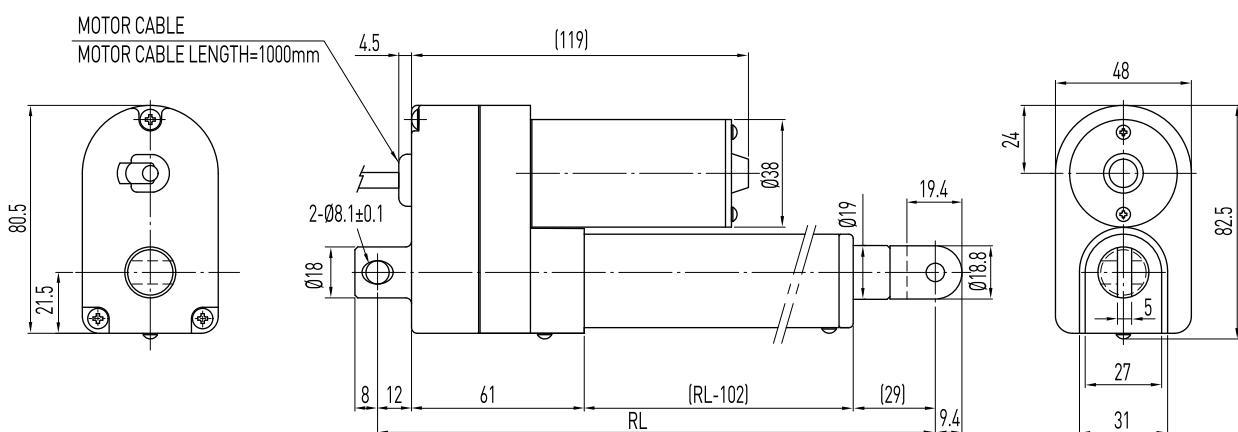
Model number	0 : Without internal limit switches 1 : Basic model complete with internal limit switches	Stroke length	Voltage	Color B : Black G : Gray	Special models according to the customer's requirement (Ignore this part of the serial number if not available)
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Linear Actuator

LAS Series

12. HIWIN LAS Series (3)

LAS3



- $RL = S + 146$
- Stroke ≤ 250
- $RL = S + 196$
- Stroke > 250
- RL: Retracted length
- S: Stroke length

Table 12.1 **Specifications**

Screw type	ACME
Weight*	1.27kg
Protection	IP54
Compatible controller	Compatible with all controllers (*Notice the type of connector: Audio/DIN 4pin)
Working temp.	+5°C~40°C

* Stroke length 200mm

Option:

- (1) IP65
- (2) Position feedback
 - 1: Potentiometer 10k ohm ($RL = S + 154$, $S \leq 250$ / $RL = S + 204$, $S > 250$)
 - 2: Optical sensor: PNP (standard), NPN, TTL
- (3) 36VDC motor

Table 12.2 **Position feedback specifications (Optical Sensor)**

Supply voltage	24VDC	12VDC	5VDC
Output	High level 24VDC Low level 0.2V/40mA PNP* PS. Open collector	High level 12VDC Low level 0.2V/40mA PNP* PS. Open collector	TTL

- (4) Back fixture turned 90°
- (5) Rod end with flat connector ($RL = S + 133$, $S \leq 250$ / $RL = S + 183$, $S > 250$)
- (6) Potentiometer+Rod end with flat connector
($RL = S + 141$, $S \leq 250$ / $RL = S + 191$, $S > 250$)
- (7) Plug : DIN 4PIN plug / Stereo plug / Mono plug

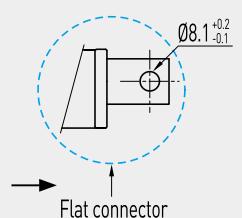
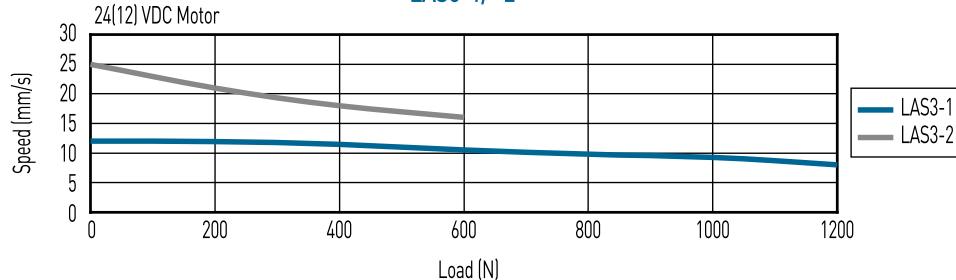


Table 12.3 LAS3 Specifications

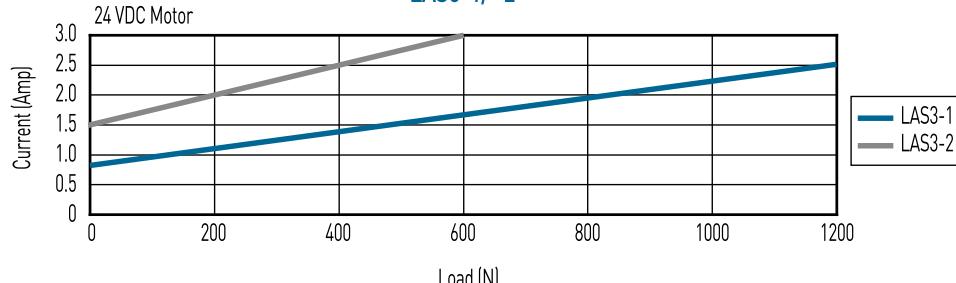
Model	Thrust max. (N)	Pulling max. (N)	Holding max. (N)	Speed (mm / s) Load = Max. / Load = 0	Standard stroke (mm) : S					Duty cycle %	Current max. (A) 12VDC	Optical Sensor Resolution (mm/pulse)	Potentiometer Resolution (0hm/mm)	
LAS3-1	1200	1200	800	8 / 12	50	100	150	200	250	10	6	2.5	0.3175	21
LAS3-2	600	600	300	16 / 25	50	100	150	200	250	10	6	3	0.635	10.5

*Min. input power = Voltage x Current max.

LAS3-1/-2

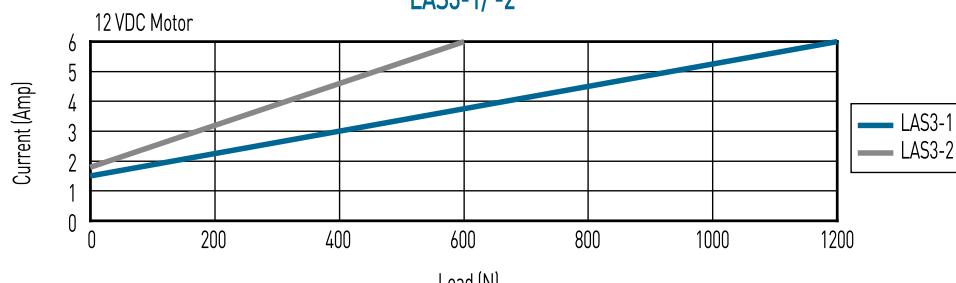


LAS3-1/-2



**Note: The test results are obtained by using the 24VDC power supply.

LAS3-1/-2



**Note: The test results are obtained by using the 12VDC power supply.

Ordering Information

LAS3 - 1 - 1 - 200 - 24 G E

Model number	0 : Without internal limit switches 1 : Basic model complete with internal limit switches	Stroke length	Voltage	Color B : Black G : Gray	Special models according to the customer's requirement (Ignore this part of the serial number if not available)
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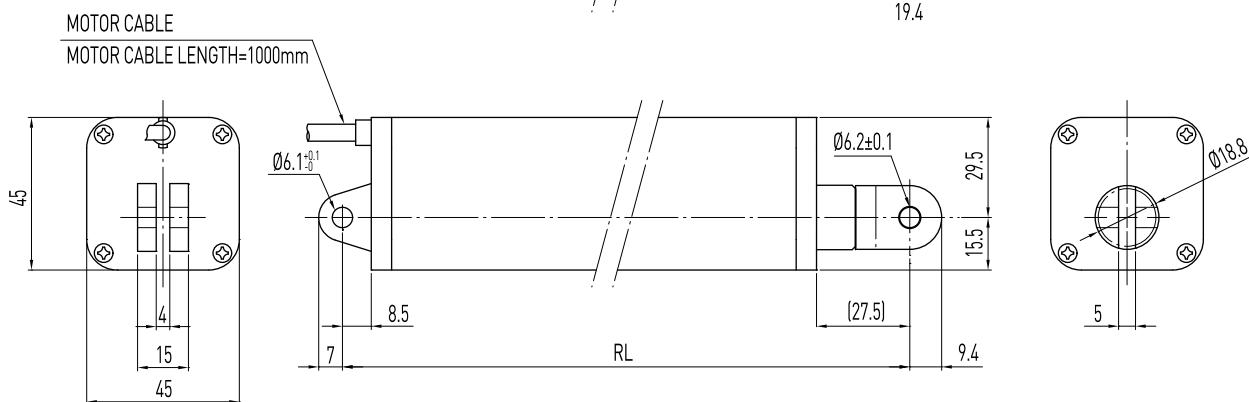
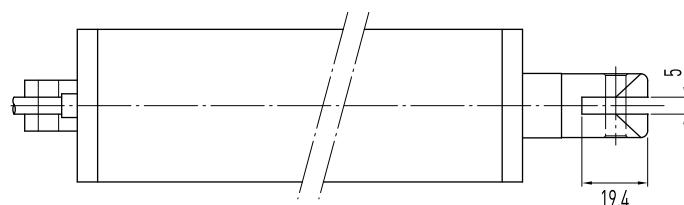
Linear Actuator

LAS Series

13. HIWIN LAS Series (4)

LAS4

CE



- RL = S+222.5
- Stroke \leq 300
- RL = S+272.5
- Stroke > 300
- RL: Retracted length
- S: Stroke length

Table 13.1 **Specifications**

Screw type	ACME
Weight*	1.36kg
Protection	IP54
Compatible controller	Compatible with all controllers (*Notice the type of connector: Audio/DIN 4pin)
Working temp.	+5°C~40°C
* Stroke length	200mm

Table 13.2 **Position feedback specifications (Hall Sensor)**

Supply voltage	24VDC	12VDC	5VDC
Output	High level 24VDC Low level 0.2V / 10mA sink (NPN)	High level 12VDC Low level 0.2V / 10mA sink (NPN)	TTL

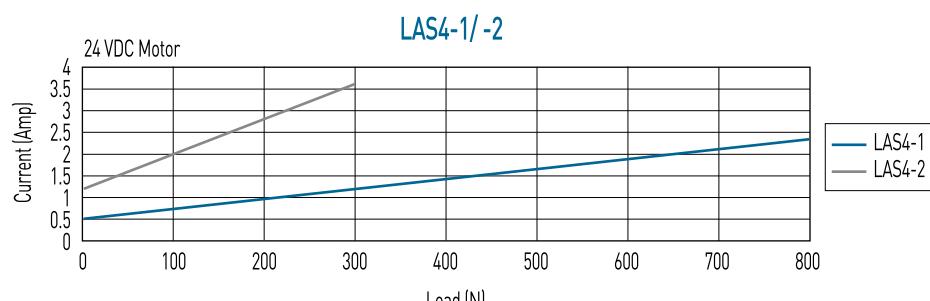
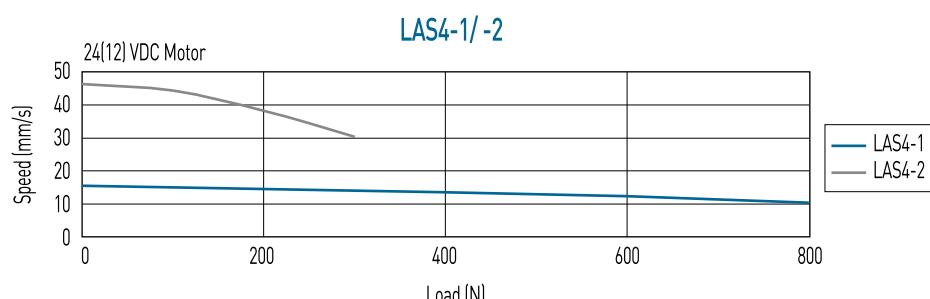
Option:

- (1) IP65
- (2) Hall sensor (RL = S+226, S \leq 300 / RL = S+276, S > 300)
- (3) Plug: DIN 4PIN plug/Stereo plug/Mono plug

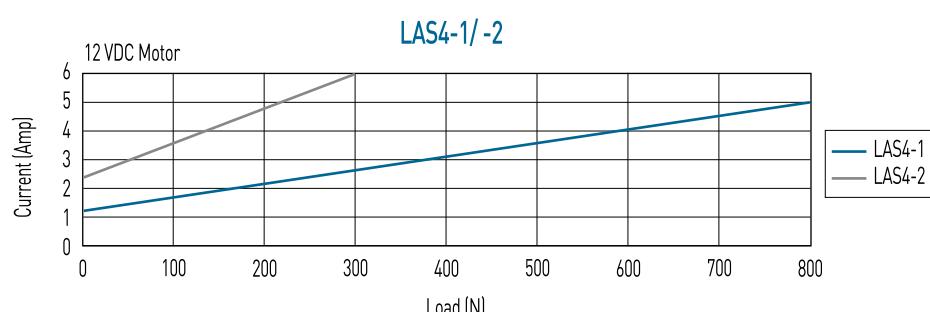
Table 13.3 LAS4 Specifications

Model	Thrust	Pulling	Holding	Speed	Standard stroke					Duty	Current max.	Hall Sensor	
	max. [N]	max. [N]	max. [N]	[mm / s] Load = Max. / Load = 0	[mm] : S					cycle %	[A] 12VDC	[A] 24VDC	Resolution (mm/pulse)
LAS4-1	800	800	600	10 / 15	100	150	200	250	300	10	5	2.3	0.0085
LAS4-2	300	300	200	30 / 46	100	150	200	250	300	10	6	3.6	0.02

*Min. input power = Voltage x Current max.



**Note: The test results are obtained by using the 24VDC power supply.



**Note: The test results are obtained by using the 12VDC power supply.

Ordering Information

LAS4 - 1 - 1 - 200 - 12 G E

Model number	0 : Without internal limit switches 1 : Basic model complete with internal limit switches	Stroke length	Voltage	Color B : Black G : Gray	Special models according to the customer's requirement (Ignore this part of the serial number if not available)
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Linear Actuator

LAS Series

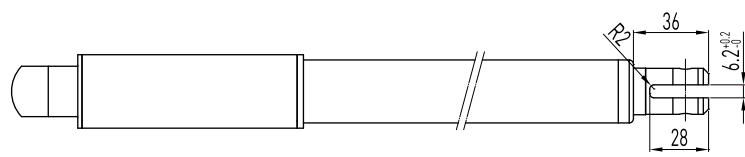
14. HIWIN LAS Series (5)

LAS5

CE

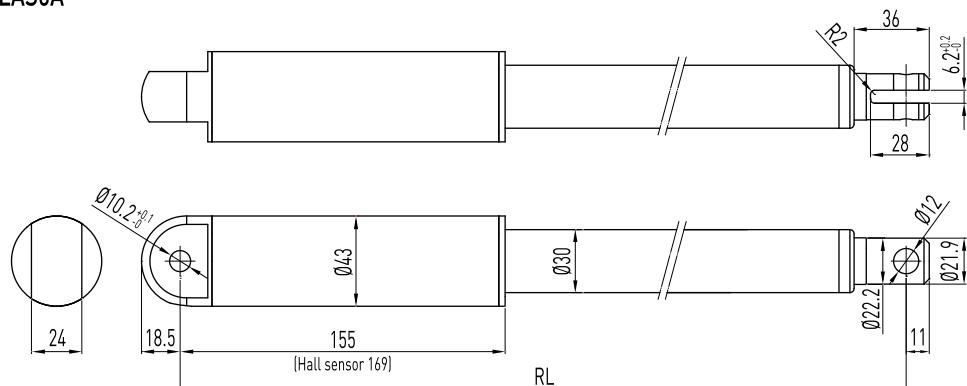


LAS5



- LAS5
 - RL = S+205
 - Stroke \leq 300
 - RL = S+255
 - Stroke > 300
 - RL: Retracted length
 - S: Stroke length

LAS5A



- LAS5A
 - RL = S+240
 - Stroke \leq 300
 - RL = S+290
 - Stroke > 300
 - RL: Retracted length
 - S: Stroke length

Table 14.1 Specifications

Screw type	ACME
Weight*	1.5kg
Protection	IP54
Compatible controller	LAK2/LAK2BN/LAK6B
Working temp.	+5°C~40°C

* Stroke length 100mm

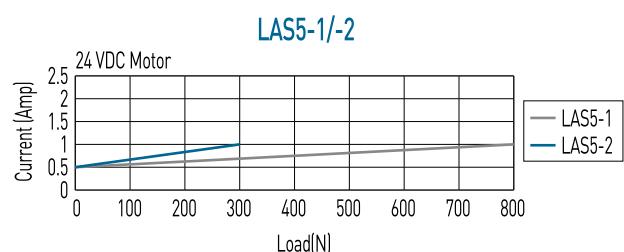
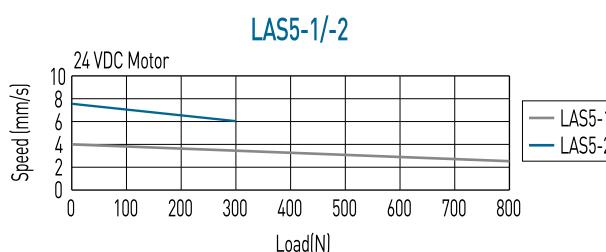
Option:

- [1] Hall sensor
[LAS5:RL = S+218, S \leq 300 RL = S+268, S > 300;
LAS5A:RL = S+254, S \leq 300 / RL = S+304, S > 300]
- [2] Safety nut
- [3] Reed switches
- [4] IP66
- [5] Plug: DIN 4PIN plug / Stereo plug / Mono plug

Table 14.2 LAS5 Specifications

Model	Thrust max. (N)	Pulling max. (N)	Holding max. (N)	Speed (mm / s) Load = Max. / Load = 0	Standard stroke (mm) : S						Duty cycle %	Current max. (A) 24VDC	Hall Sensor Resolution (mm/pulse)
LAS5-1	800	800	600	2.5 / 4	100	150	200	250	300	10	1	0.0084	
LAS5-2	300	300	200	6 / 7.5	100	150	200	250	300	10	1	0.014	

*Min. input power = Voltage x Current max.

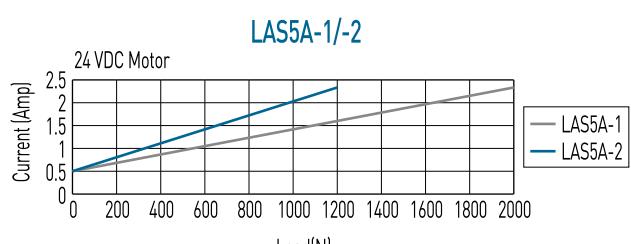
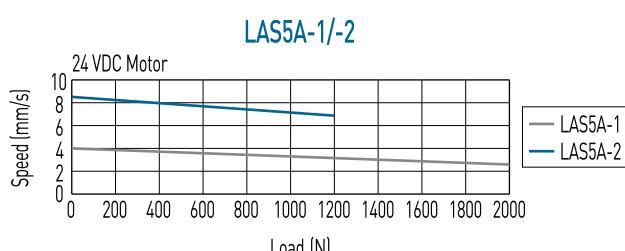


**Note: The test results are obtained by using the 24VDC power supply.

Table 14.3 LAS5A Specifications

Model	Thrust max. (N)	Pulling max. (N)	Holding max. (N)	Speed (mm / s) Load = Max. / Load = 0	Standard stroke (mm) : S						Duty cycle %	Current max. (A) 24VDC	Hall Sensor Resolution (mm/pulse)
LAS5A-1	2000	2000	1500	2.5 / 4	100	150	200	250	300	10	2.3	0.0084	
LAS5A-2	1200	1200	800	7 / 8.5	100	150	200	250	300	10	2.3	0.014	

*Min. input power = Voltage x Current max.



**Note: The test results are obtained by using the 24 VDC power supply.

Ordering Information

LAS5A - 1 - 0 - 200 - 24 B E

Model number	0 : Basic model 1 : Complete with External limit switches	Stroke length	Voltage	Color B : Black	Special models according to the customer's requirement {Ignore this part of the serial number if not available}
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