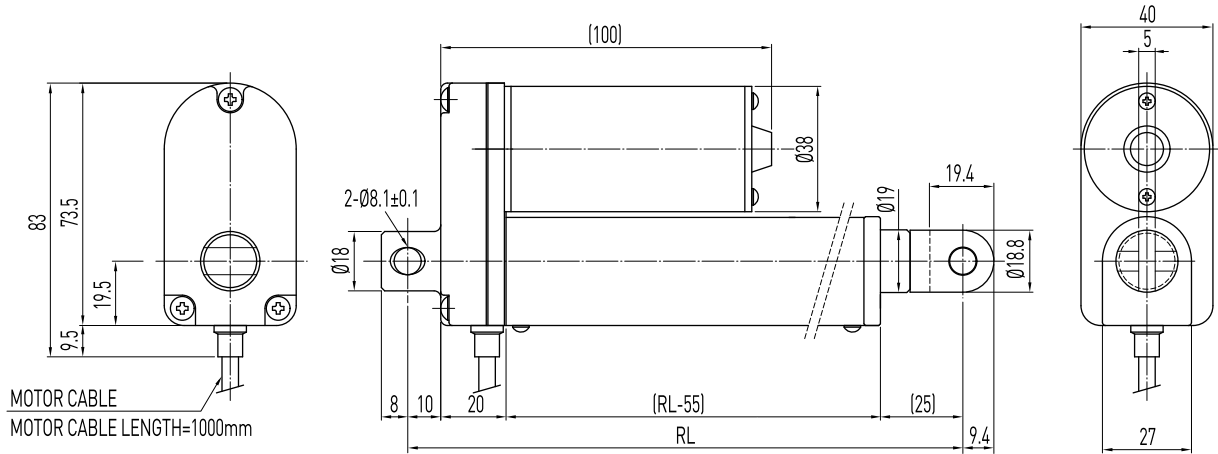


# Linear Actuator

## LAS Series

### 10. HIWIN LAS Series (1)

#### LAS1



- 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:

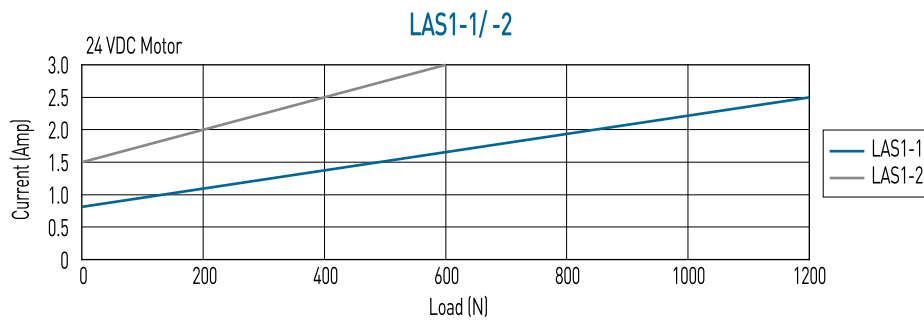
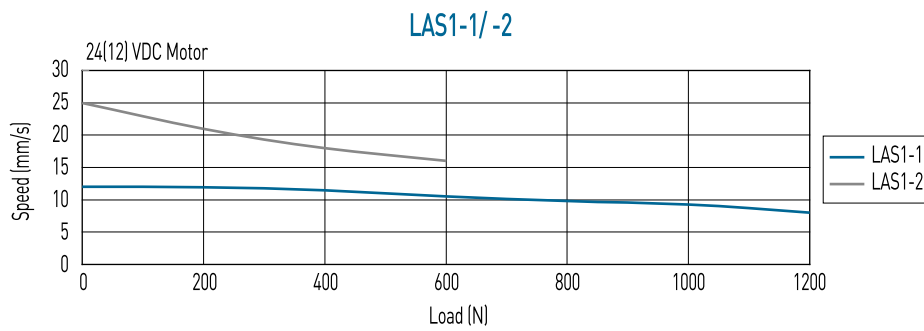
- (1) IP65
- (2) Back fixture turned 90
- (3) Rod end with flat connector  
(RL=S+110, S ≤ 250 / RL=S+160, S > 250)
- (4) 36VDC motor
- (5) External reed switches
- (6) Plastic gear (Max. load: 800N)
- (7) Plug : DIN 4PIN plug / Stereo plug / Mono plug



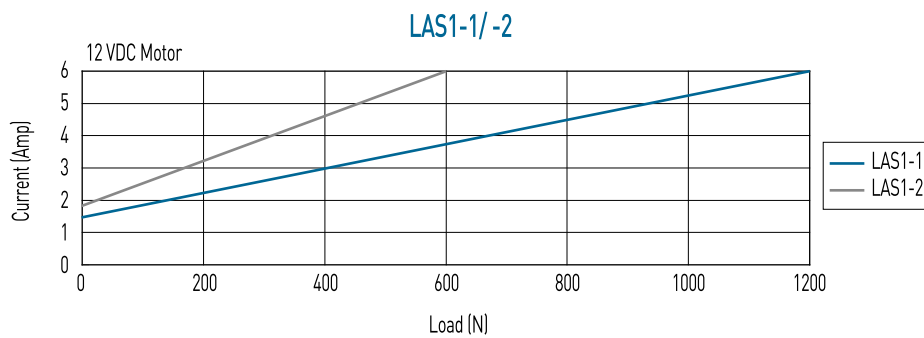
Table 10.2 LAS1 Specifications

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. (A)	
					50	100	150	200	250		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**

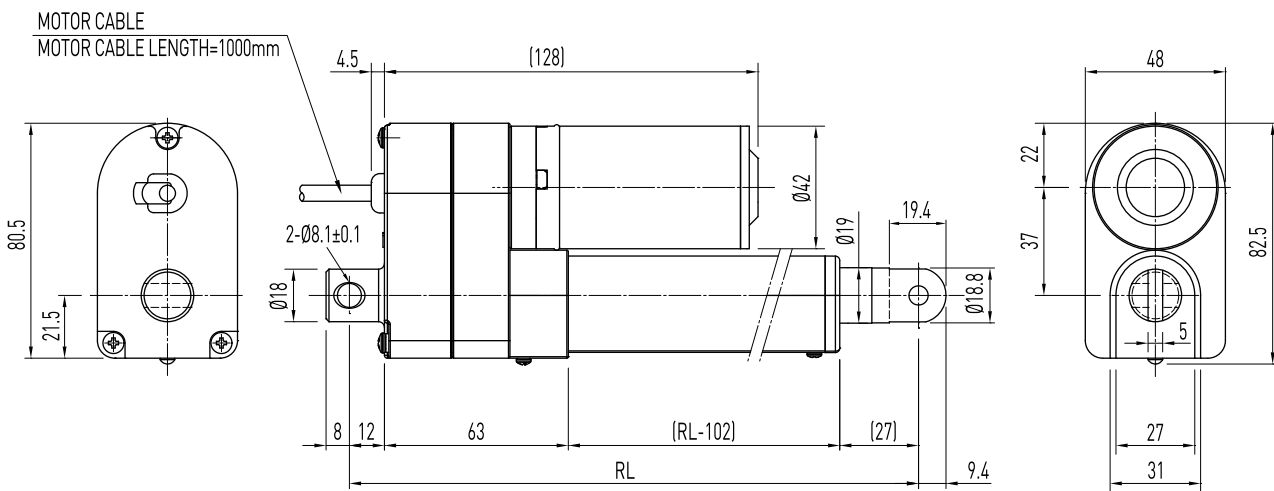
Model number	Stroke length	Voltage	Color	Special models according to the customer's requirement (Ignore this part of the serial number if not available)
0 : Without internal limit switches 1 : Basic model complete with internal limit switches			B : Black G : Gray	

# Linear Actuator

## LAS Series

### 11. HIWIN LAS Series (2)

#### LAS2



- RL = S+146  
Stroke ≤ 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 ≤ 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 ≤ 250 / RL = S+183, S > 250)
- (6) Potentiometer+Rod end with flat connector  
(RL = S+141, S ≤ 250 / RL = S+191, S > 250)
- (7) Plug: DIN 4PIN plug / Stereo plug / Mono plug
- (8) UL version

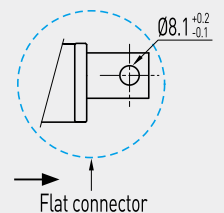
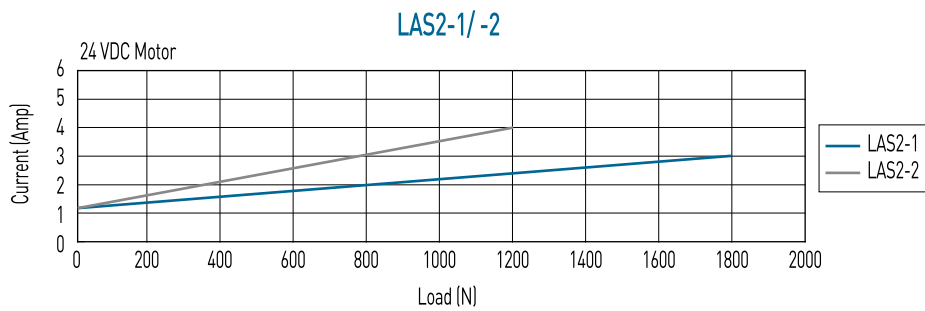
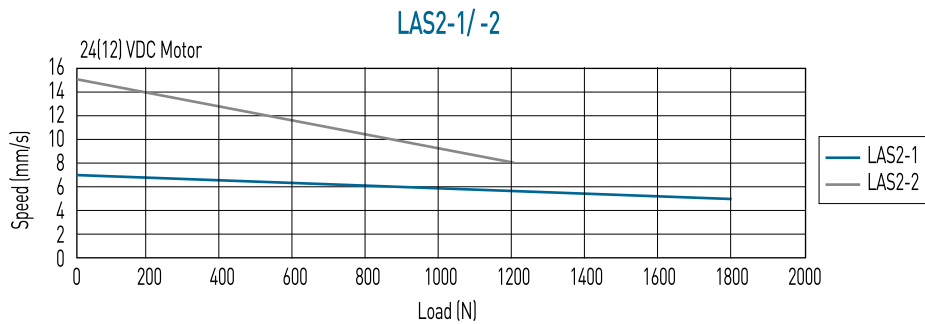


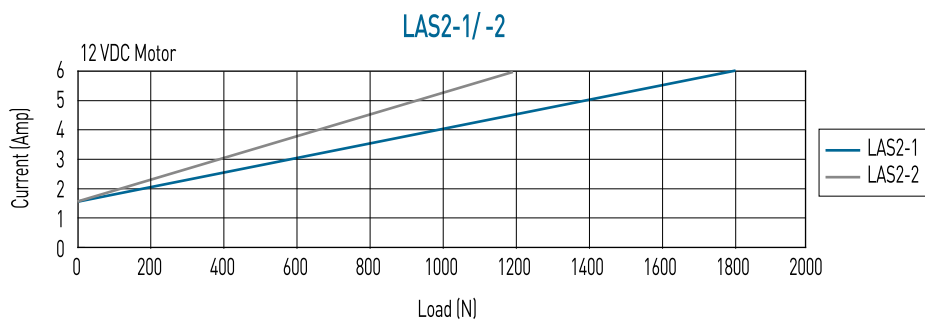
Table 11.3 LAS2 Specifications

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)		Optical Sensor Resolution (mm/pulse)	Potentiometer Resolution (Ohm/mm)
					50	100	150	200	250		12VDC	24VDC		
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**

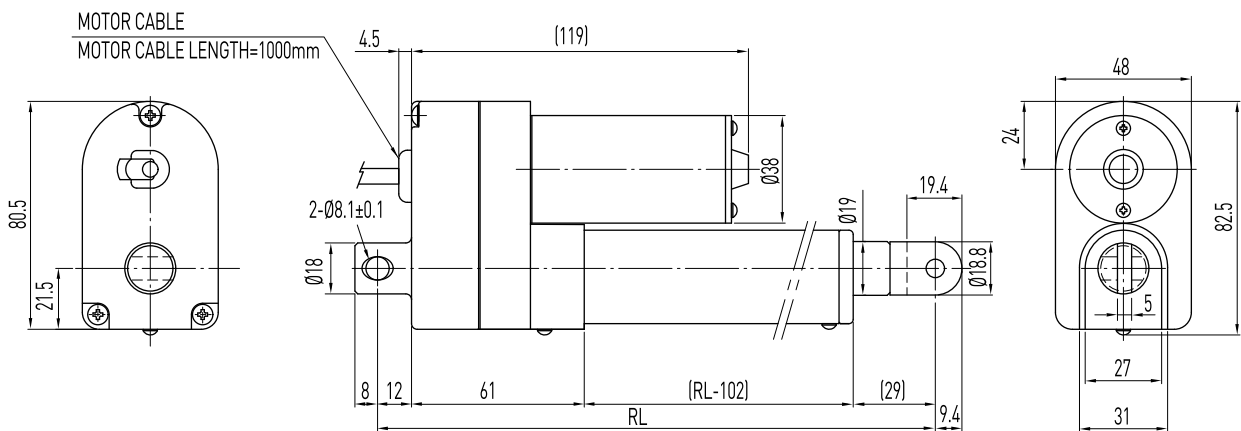
Model number	Stroke length	Voltage	Color	Special models according to the customer's requirement (Ignore this part of the serial number if not available)
0 : Without internal limit switches 1 : Basic model complete with internal limit switches			B : Black G : Gray	

# 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

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

### Option:

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

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

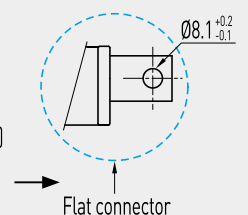
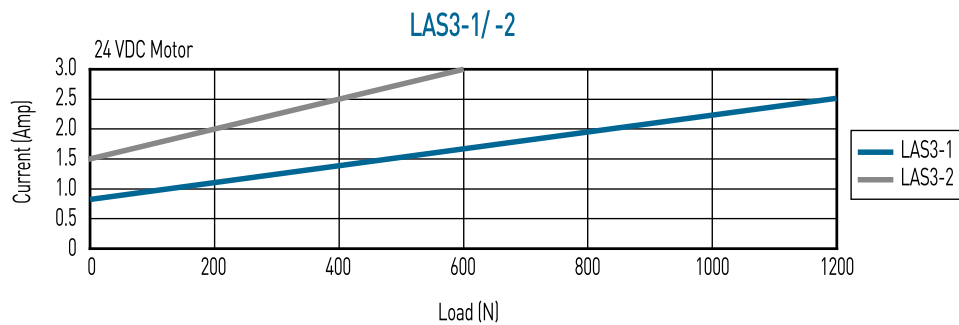
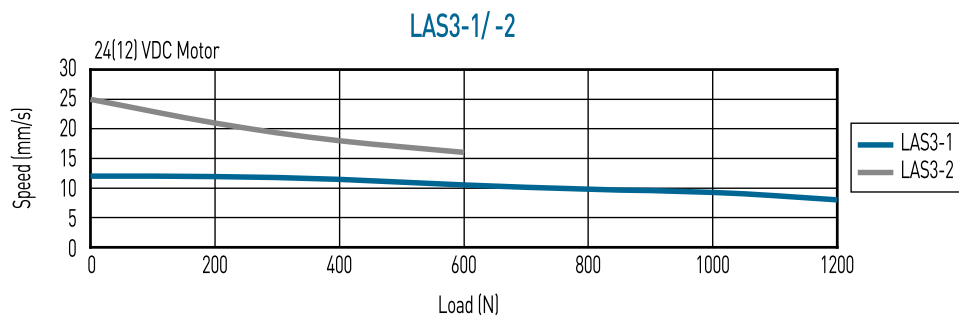


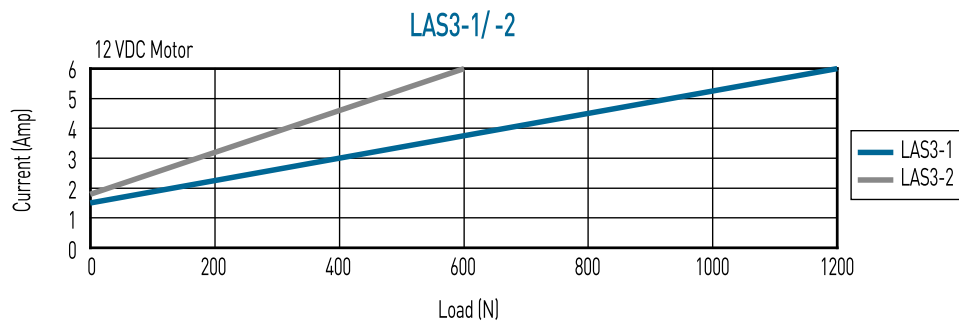
Table 12.3 LAS3 Specifications

Model	Thrust	Pulling	Holding	Speed	Standard stroke					Duty cycle %	Current max. (A)		Optical Sensor Resolution (mm/pulse)	Potentiometer Resolution (Ohm/mm)
	max. (N)	max. (N)	max. (N)	(mm / s) Load = Max. / Load = 0	(mm)	: S					12VDC	24VDC		
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.



\*\*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

**LAS3 - 1 - 1 - 200 - 24 G E**

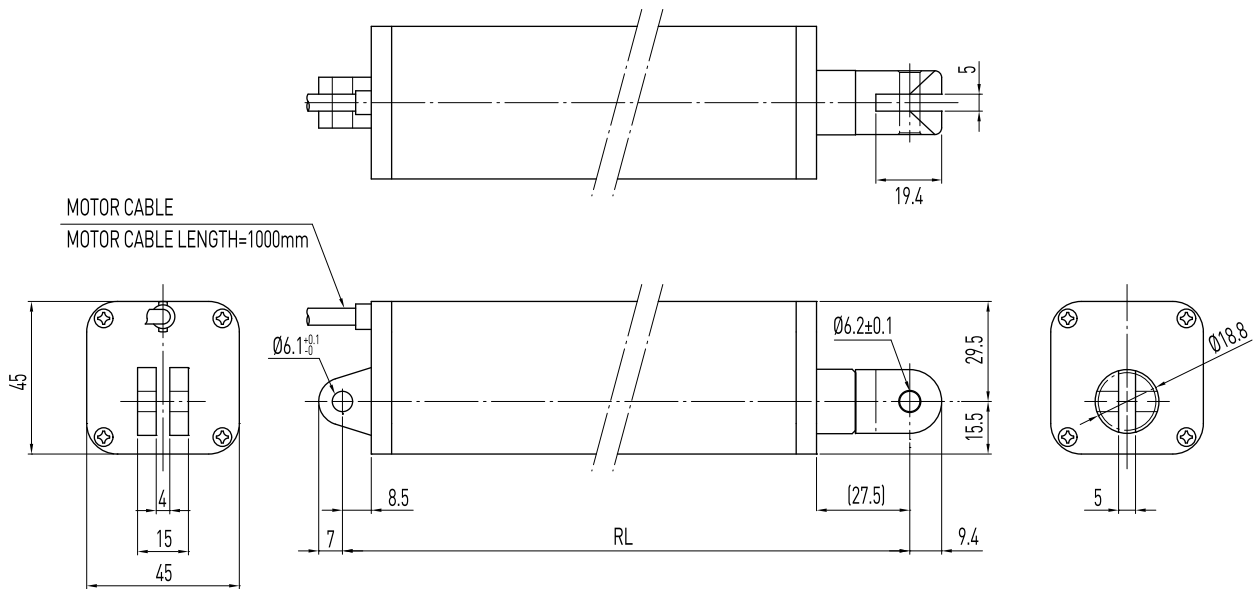
Model number	Stroke length	Voltage	Color	Special models according to the customer's requirement (Ignore this part of the serial number if not available)
0 : Without internal limit switches 1 : Basic model complete with internal limit switches			B : Black G : Gray	

# Linear Actuator

## LAS Series

### 13. HIWIN LAS Series (4)

#### LAS4



- RL = S+222.5  
Stroke ≤ 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

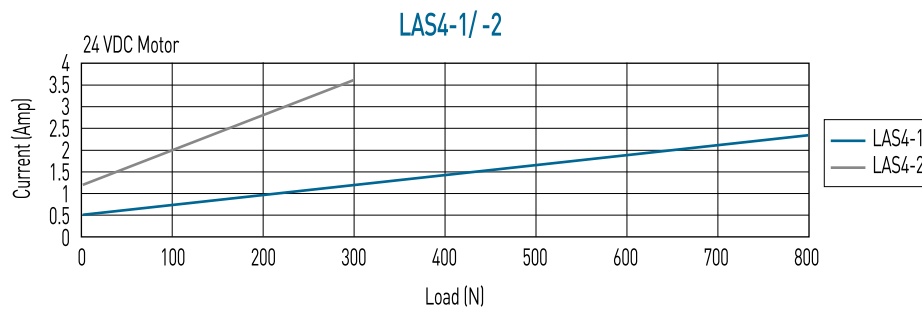
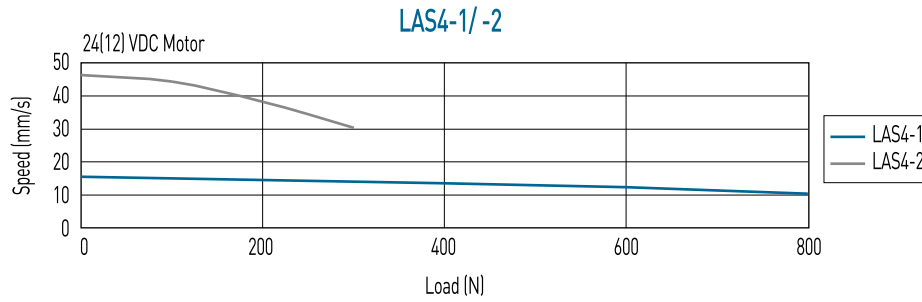
#### Option:

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

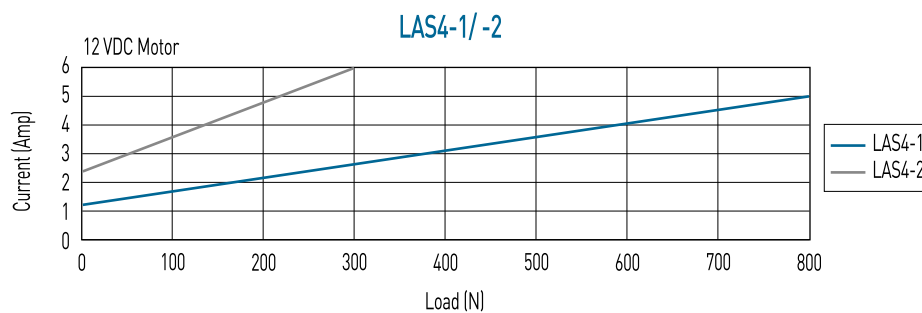
Table 13.3 LAS4 Specifications

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)		Hall Sensor Resolution (mm/pulse)
					100	150	200	250	300		12VDC	24VDC	
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.

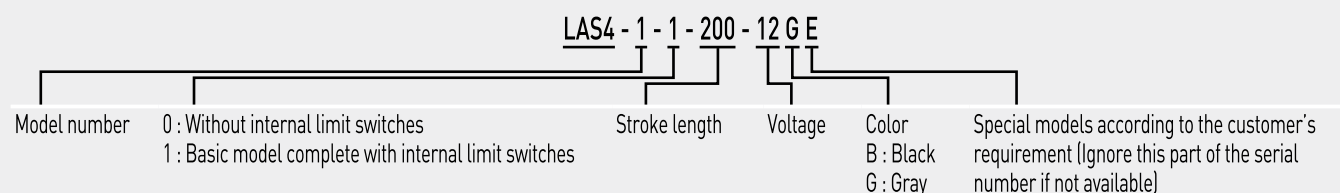


\*\*Note: The test results are obtained by using the 24VDC power supply.



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

## Ordering Information



# Linear Actuator

## LAS Series

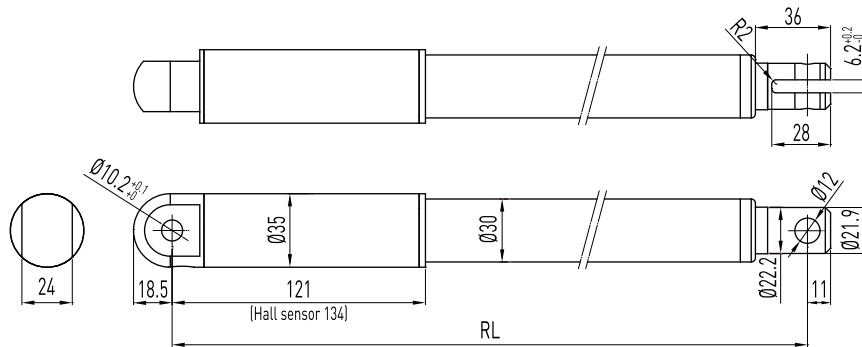
### 14. HIWIN LAS Series (5)

#### LAS5



#### LAS5

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



#### LAS5A

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

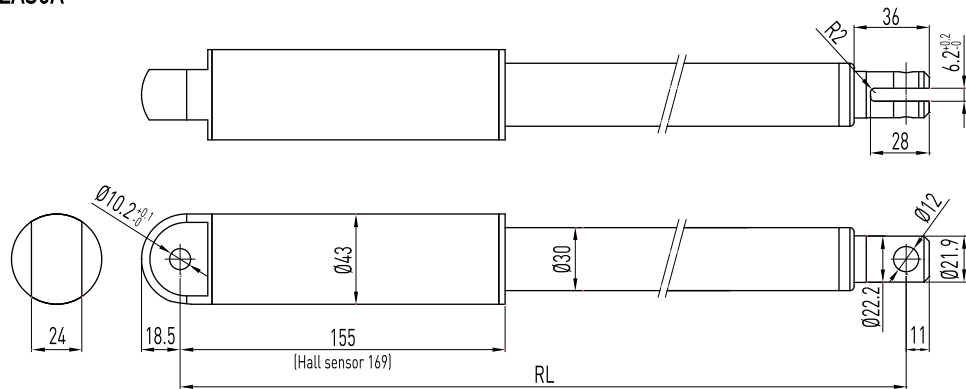


Table 14.1 Specifications

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

\* Stroke length 100mm

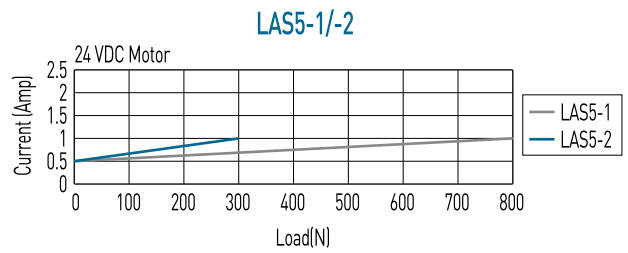
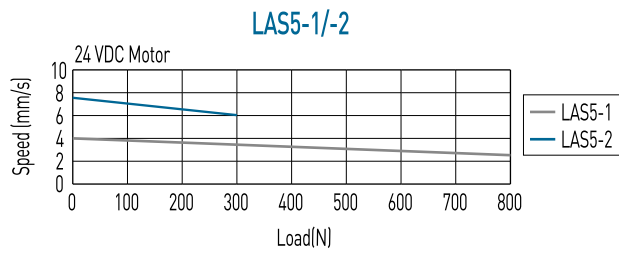
#### Option:

- (1) Hall sensor  
 [ LAS5:RL = S+218, S ≤ 300/RL = S+268, S > 300;  
 LAS5A:RL = S+254, S ≤ 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)
					100	150	200	250	300			
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.

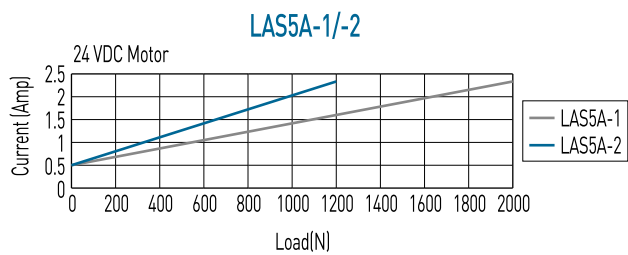
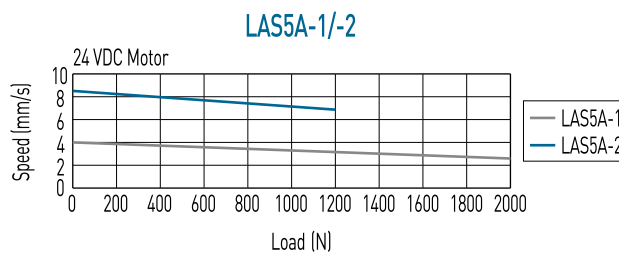


\*\*Note: The test results are obtained by using the 24VDC power supply.

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)
					100	150	200	250	300			
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

