

Specifications:

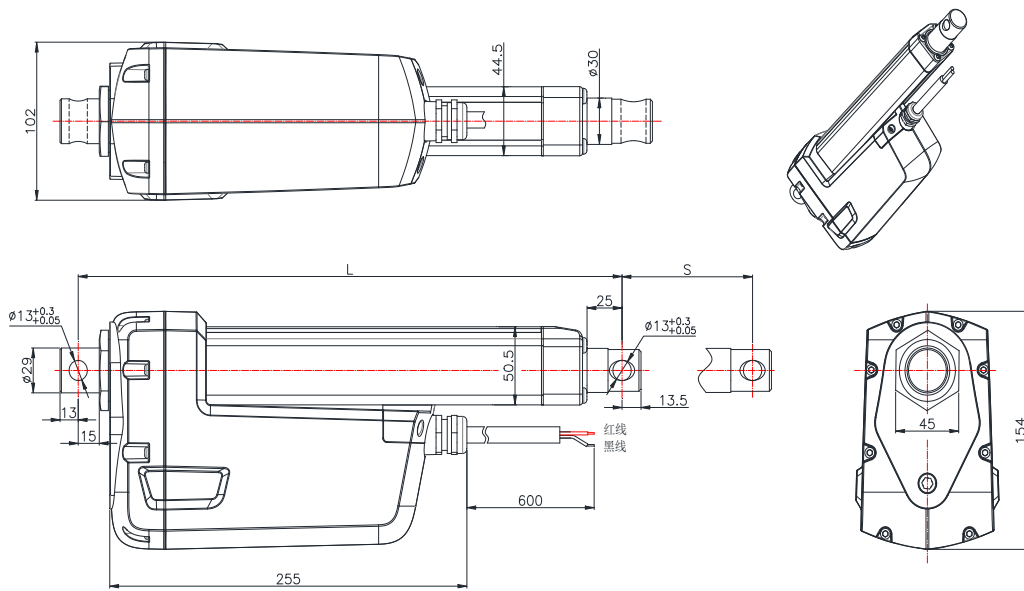
- 1, DC permanent magnet motor, small size, easy to install.
- 2, 12V/24V/36V/48V optional voltage.
- 3, Speed from 6.5mm/s to 60mm/s as requested.
- 4, Maximum load 12000N.
- 5, Temperature range: -40°C-65°C, Duty cycle at room temperature
- 6, Potentiometer, hall feedback optional.
- 7, We accept custom order for your application.
- 8, Overload clutch protection.
- 9, IP Grade: IP66, Designed for outdoor use.
- 10, High strength metal shell, durable, widely used in various industry equipment, special vehicle and the high load output extremely harsh conditions.



Table 1.0 Transmission parameters of the code

code	gear ratio	pitch (mm)	speed without load mm/S	speed with full load mm/S	max load (push/pull) N	self-lock N	no load amp A		full load amp A		potentiometer (bourns 0-10K ohm A 5%, 10-turn)
							12V	24V	12V	24V	
A	40:1	4	6.5	4.5	12000	15000	4.0	2.4	20	10.5	176 mm eg: 100mm stroke=5.7KΩ
B	30:1		8.5	6	11000	12000	4.0	2.4	20	10.5	
C	20:1		13	9	7500	9000	4.0	2.4	20	10.5	
D											
E	40:1	8	13	7	10000	12000	4.0	2.4	20	10.5	352 mm eg: 200mm stroke=5.7KΩ
F	30:1		17	9.5	7000	8000	4.0	2.4	20	10.5	
G	20:1		25	14	5000	6000	4.0	2.4	20	10.5	
H											
I	40:1	12	20	11	6500	8000	4.0	2.4	20	10.5	528 mm eg: 500mm stroke=9.4KΩ
J	30:1		25	13	4500	5500	4.0	2.4	20	10.5	
K	20:1		38	24	3200	4000	4.0	2.4	20	10.5	
L											

Dimension standard



注: 1> $50 \leq \text{Stroke} \leq 350, L = S + 200$ (min installation should be 300mm) $350 < \text{Stroke} \leq 700, L = S + 250$

2> Mounting hole 0°

3> When front attachment is joint bearing or customized attachment, the dimension is not apply to above rules

Table 3.0 Front attachment

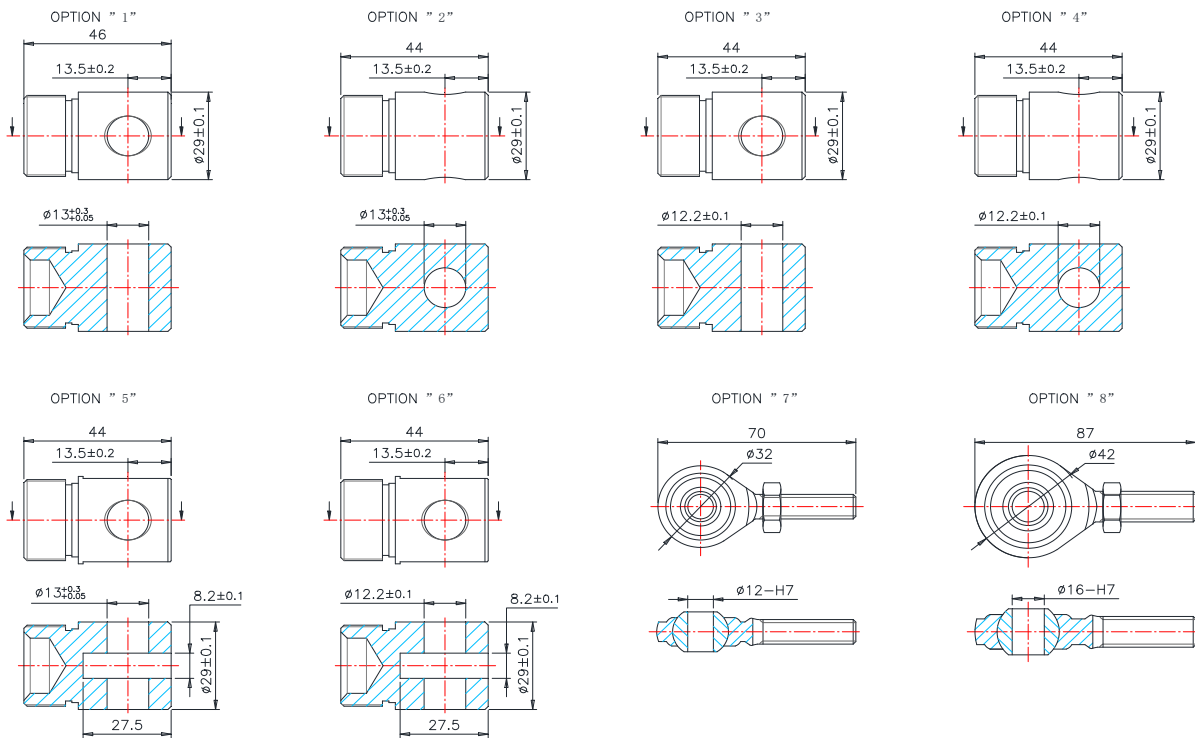
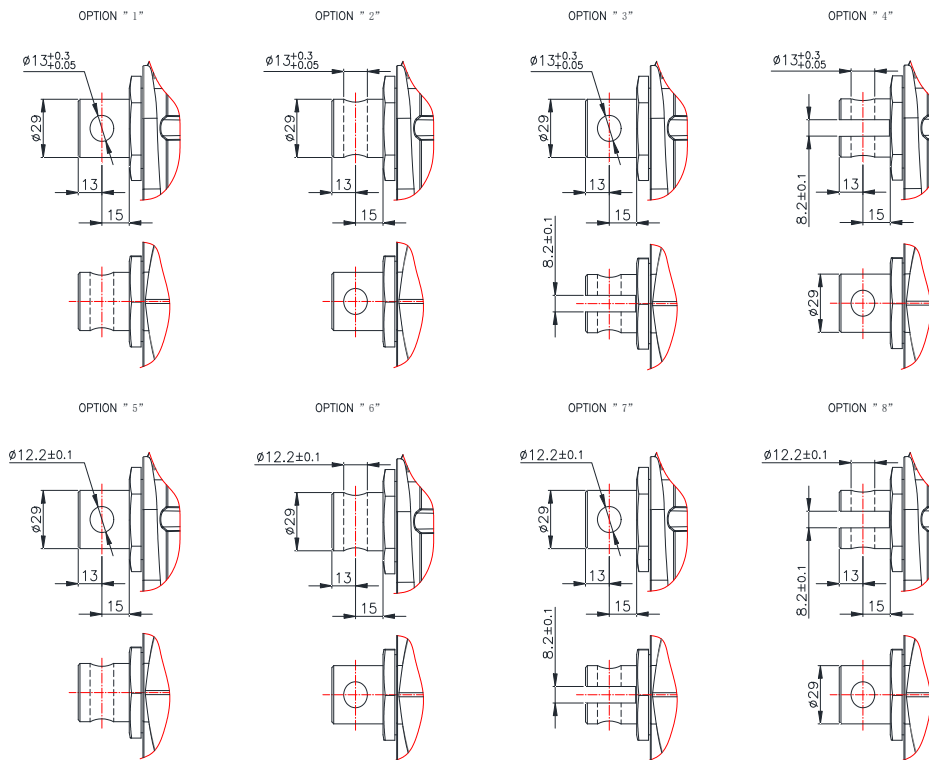
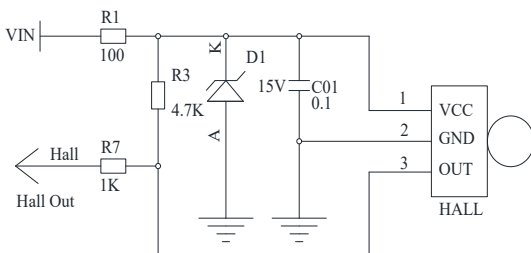
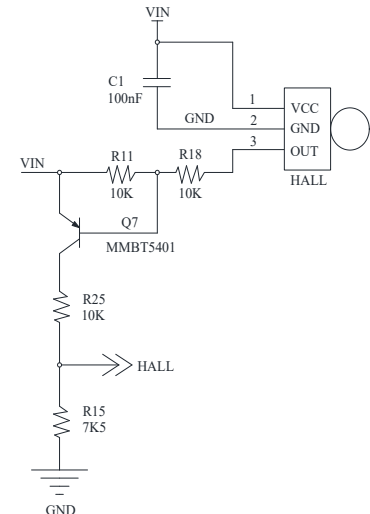


Table 4.0 Rear attachment



Displacement sensor (Hall)

	item	min	max	typical	test condition
plan 1	voltage	7V	30V	12V/24V	$I_o=0$
	output voltage	$V_{in} \cdot 0.425$			$I_o=0, V_{in} > 10V$
	Output current of signal		500mA		
	current	2mA	6mA	4mA	$I_o=0$
plan2	voltage	3.3V	15V		$I_o=0$
	output voltage	20mV	0.7V	0.1	$I_o=0, V_{in} > 5V$
	Output current of signal		20mA		$V_{in}=12V$
	current	2mA	6mA	4mA	$I_o=0$
PS: If $V_{in} > 15V$, need to change D1					



Schematic diagram of plan 2 (hall is installed in the motor)

Schematic diagram of plan 1 (hall is installed on the control board)

Note:

- Two kinds of hall installation plans are provided. The default is plan 1
- In plan 1, the phase difference between two hall is $55^\circ \sim 90^\circ$, plan 2: phase difference between two hall is $90^\circ \pm 10^\circ$
- Refer to table 5.0 for Hall pulse equivalent

Table 5.0 Hall sensor parameter comparison table

hall is installed on the control board				
Reduction ratio		lead range	Magnet pole number	Single Hall pulse equivalent
linear actuator	hall			
20.843:1	27:47	4	Pair of poles	0.435pulse/mm
			Four pairs of poles	1.741pulse/mm
31.131	20:54		Pair of poles	0.675pulse/mm
			Four pairs of poles	2.700pulse/mm
43.404	16:58		Pair of poles	0.906pulse/mm
			Four pairs of poles	3.625pulse/mm
20.843:1	27:47	8	Pair of poles	0.218pulse/mm
			Four pairs of poles	0.870pulse/mm
31.131	20:54		Pair of poles	0.338pulse/mm
			Four pairs of poles	1.350pulse/mm
43.404	16:58		Pair of poles	0.453pulse/mm
			Four pairs of poles	1.813pulse/mm
20.843:1	27:47	12	Pair of poles	0.145pulse/mm
			Four pairs of poles	0.580pulse/mm
31.131	20:54		Pair of poles	0.225pulse/mm
			Four pairs of poles	0.900pulse/mm
43.404	16:58		Pair of poles	0.302pulse/mm
			Four pairs of poles	1.209pulse/mm
hall is installed in the motor				
Reduction ratio		lead range	Magnet pole number	Pulse equivalent
20.843:1	4	4	Pair of poles	5.211pulse/mm
			Four pairs of poles	20.843pulse/mm
31.131:1			Pair of poles	7.783pulse/mm
			Four pairs of poles	31.131pulse/mm
43.404:1			Pair of poles	10.851pulse/mm
			Four pairs of poles	43.404pulse/mm
20.843:1	8	8	Pair of poles	2.605pulse/mm
			Four pairs of poles	10.422pulse/mm
31.131:1			Pair of poles	3.891pulse/mm
			Four pairs of poles	15.566pulse/mm
43.404:1			Pair of poles	5.426pulse/mm
			Four pairs of poles	21.702pulse/mm
20.843:1	12	12	Pair of poles	1.737pulse/mm
			Four pairs of poles	6.948pulse/mm
31.131:1			Pair of poles	2.594pulse/mm
			Four pairs of poles	10.377pulse/mm
43.404:1			Pair of poles	3.617pulse/mm
			Four pairs of poles	14.468pulse/mm