

Feature

- Max.load 16000N
- Product class IP66
- Compact mechanical system
- Built-in limit switches
- Imported POT/HALL sensors /
Magnetic reed switch (options)
- CE certificated
- Widely work in the harsh environment

Model

FB605P



Basic Spec.

Housing color	☐ Black					
Screw type	☐ Ball screw (standard)		☐ T-screw			
Control	☐ control box ☐ control system + manual					
Application	☐ Industrial					
Work environment	☐ 0~40℃	☐ -20~65℃	☐ -40~65℃			
Noise level	☐ ≤75dB					
Stroke	☐ 50-600mm		☐ Customize stroke			
Load	☐ ≤16000N	☐ ≤12000N	☐ ≤10000N	☐ ≤8000N	☐ ≤5000N	
Duty cycle	☐ 10%		☐ 20%			
Motor type	☐ Brushed DC motor					
Over-load production	☐ Electrical system					
IP rating	☐ IP66					
Signal output	☐ No	☐ Switch signal	☐ Hall sensors	☐ POT	☐ Magnetic switch	
Input voltage	☐ 12V	☐ 24V	☐ 36V	☐ 48V		
Cable length	☐ 0.5m	☐ 1m	☐ Customize length			



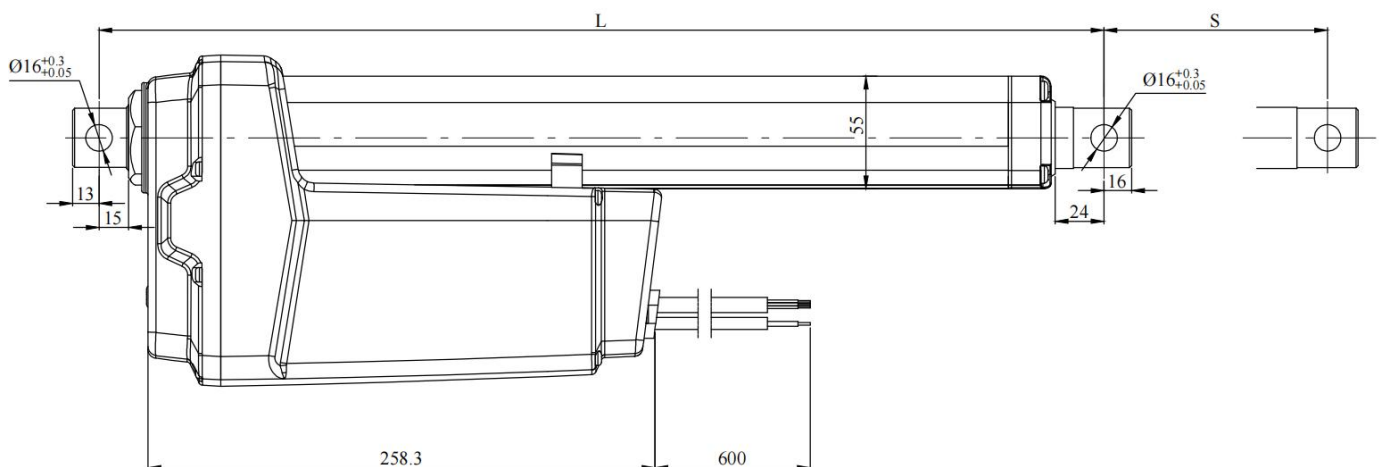
Technical info

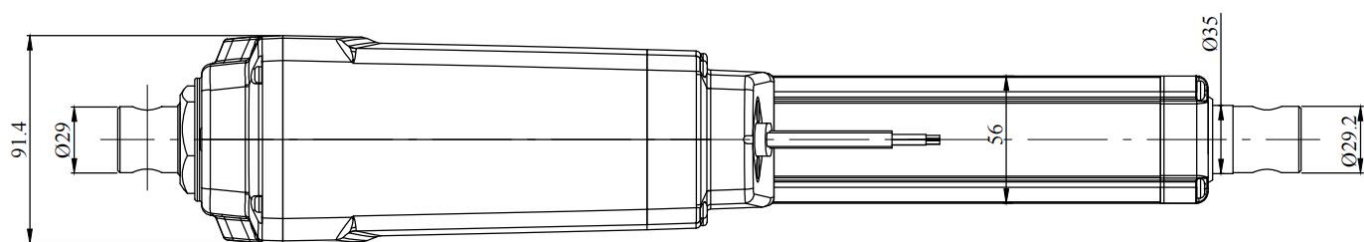
Code	Gear ratio	Screw pitch mm	No-load mm/s	Full-load mm/s	Max.load (N)	Max. Self-locking (N)	No-load current A		Full-load current A		Max.stroke With POT
							12V	24V	12V	24V	KΩ/mm
A	40:1	5	6.2	4.8	16000	20000	4	2.5	20	10.5	236.25mm 42.328Ω/mm
B	40:1		8.2	6.6	14500	19000	4	2.5	20	10.5	
C	30:1		11	9	13000	15000	4	2.5	20	10.5	
D	20:1		16	13.5	12000	14500	4	2.5	20	10.5	
E	30:1	10	22	18.5	8500	12000	4	2.5	20	10.5	472.5mm 21.164Ω/mm
F	20:1		33	27	5500	10000	4	2.5	20	10.5	
G	30:1	20	44	36	3500	6000	4	2.5	20	10.5	945mm 10.582Ω/mm
H	20:1		66	55	2000	4000	4	2.5	20	10.5	

Mounting length

S: Stroke, the travel length of actuator

L: Length, the fully retracted length of actuator from front hole centre to rear hole centre



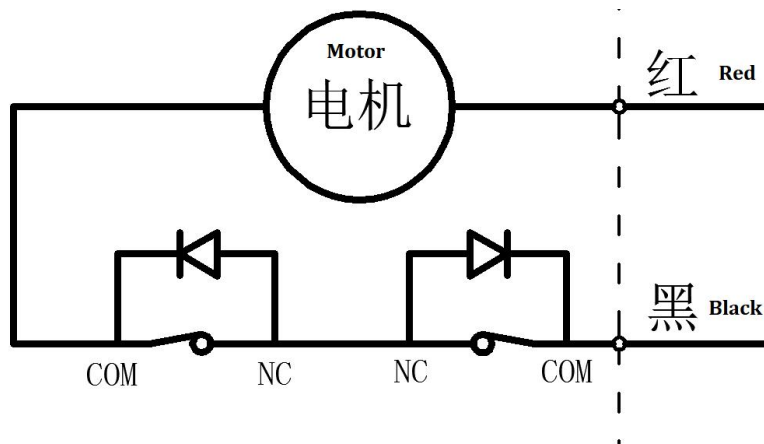


Stroke & Mounting length

S(mm)	Retracted L (mm)	Extended A(mm)	Simulate
50	300	350	$50 \leq \text{Stroke} \leq 300,$ $L = S + 200;$ $A = L + S (A = S * 2 + 200)$
100	300	400	
150	350	500	
200	400	600	
250	450	700	
300	500	800	
350	600	950	$300 < \text{Stroke} \leq 600,$ $L = S + 250;$ $A = L + S (A = S * 2 + 250)$
400	650	1050	
450	700	1150	
500	750	1250	
550	800	1350	
600	850	1450	
650	950	1600	$600 < \text{Stroke} \leq 1000,$ $L = S + 300;$ $A = L + S (A = S * 2 + 300)$
700	1000	1700	
750	1050	1800	
800	1100	1900	
850	1150	2000	
900	1200	2100	
950	1250	2200	
1000	1300	2300	

Signal output

Standard limit switch diagram



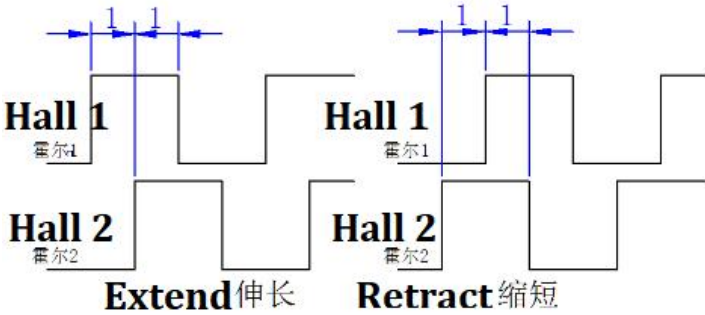
Limit switch signal output

Provide NPN signal, PNP signal (customized)

POT

POT information			
Resistance	Turn(s)	Tolerance	Remark
10K	10	±5%	Actual resistance value may vary within the 0-10KΩ range based on stroke length
POT (10KΩ)			
Code	Initial resistance	10KΩ POT Max. stroke	For example
A , B	0-0.2	228	100mm stroke resistance 4.39 KΩ
C , D	0-0.2	456	100mm stroke resistance 2.19 KΩ
E , F	0-0.2	684	100mm stroke resistance 1.46 KΩ
G	0-0.2	912	100mm stroke resistance 1.10 KΩ
H	0-0.2	1140	100mm stroke resistance 1.46 KΩ

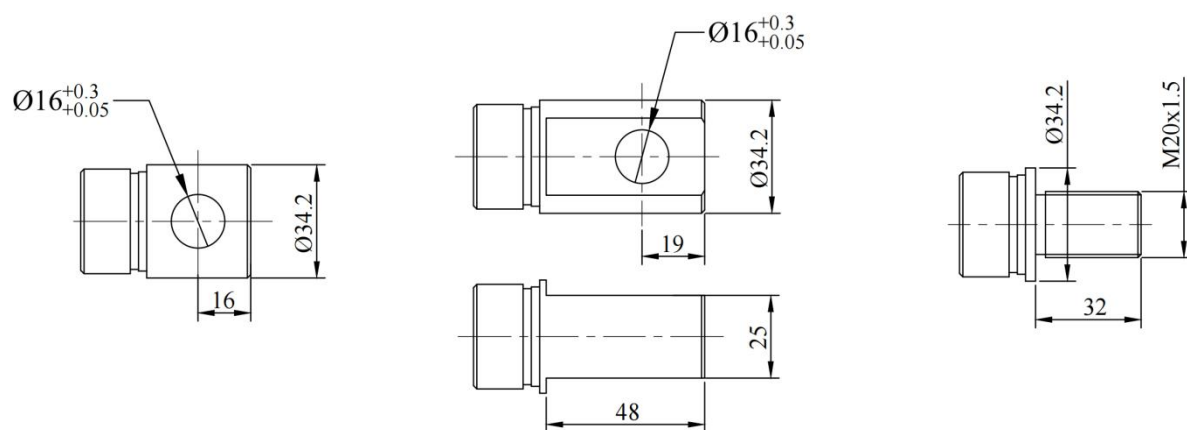
Hall sensor signal

Hall sensors built-in motor				
Code	Signal feedback	Magnetic pole	Resolution (1 pair of pole) Pulse/mm	Resolution (4 pairs of poles) Pulse/mm
A	Hall sensors	1 pair of pole or 4 pairs of poles	0.1226 mm/pulse	0.0306 mm/pulse
B			0.1226 mm/pulse	0.0306 mm/pulse
C			0.1709 mm/pulse	0.0427 mm/pulse
D			0.2552 mm/pulse	0.0638 mm/pulse
E			0.3418 mm/pulse	0.0854 mm/pulse
F			0.5105 mm/pulse	0.1276 mm/pulse
G			0.6835 mm/pulse	0.1709 mm/pulse
H			1.0209 mm/pulse	0.2552 mm/pulse
Phase difference				
Phase difference 90°				

Notice: Hall sensor power supply 3.3V-24V, recommend to use 5V or 12V

Attachment options

Front



Rear

