

LINEAR ACTUATOR RD-398D



DRIVING DREAMS

Product Specifications

LINEAR ACTUATOR RD-398D

Product characteristics

- RD-398D is a Linear actuator with quick release function,
The following models are available:
398D 0 6 4D5 24 888/888 B Zn 01 E 02 0 05 1D5
- It is characterized by small size, high accuracy and complete synchronization,
good self-locking performance, sanitary, direct motor drive.
High protection grade IP54 and low noise;
Applicable to household electric beds, medical electric
beds, beauty beds, dental chairs, or related
automated industrial machinery.



Features and options

- Maximum thrust: 1000N 2000N
- Maximum tension: 600N 1500N
- Color: White / Black
- Protection grade: IP54
- Stroke length: 100 / 150 / 200 / 250 / 300 / 350 / 400mm. Special stroke can be customized
- Installation dimension: minimum installation distance (L) $\geq$ 150 + stroke (s) + safety distance (c)

$L=S+150$ ($40<S\leq 200$)	$L=S+150+5$ ($200<S\leq 250$)
$L=S+150+10$ ($250<S\leq 300$)	$L=S+150+15$ ($300<S\leq 350$)
$L=S+150+20$ ($350<S\leq 400$)	$L=S+150+25$ ($300<S\leq 450$)
$L=S+150+30$ ($450<S\leq 500$)	$L=S+150+35$ ($300<S\leq 550$)
$L=S+150+40$ ($550<S\leq 600$)	
- Noise level: $\leq 48\text{dB}$ (a) (ambient noise $\leq 40\text{dB}$)
- Quick release function: Standard
- Safety nut: optional
- Single Hall feedback: optional
- Built in electronic limit switch
- Weight: about 3 kg (different stroke/ installation distance, weight difference)
- Static bending moment: lateral load is not allowed

Use:

- Working duty ratio: 10%; Continuous use for 2 minutes, rest for 18 minutes
- Service temperature: 5-40 °C
- Storage temperature: - 5-45 °C
- Supporting controller: optional Runda conventional controller
- Relative humidity: 20% - 90% at 30 °C, non condensing
- Atmospheric pressure: 700-1060hpa

Certificate

- EN60601-1/EN60601-1-2 & ROHS2.0

Technical Parameter

Voltage (V)	Lead (mm)	Maximum load (N)	Self-locking force (N)	No load speed (mm/s)	Load speed (mm/s)	Load speed (A)
24	10	1000	600	20	13.5	5
29	10	1000	600	23	16	5
24	7.5	2000	1500	14	10	5
29	7.5	2000	1500	17.5	13	5

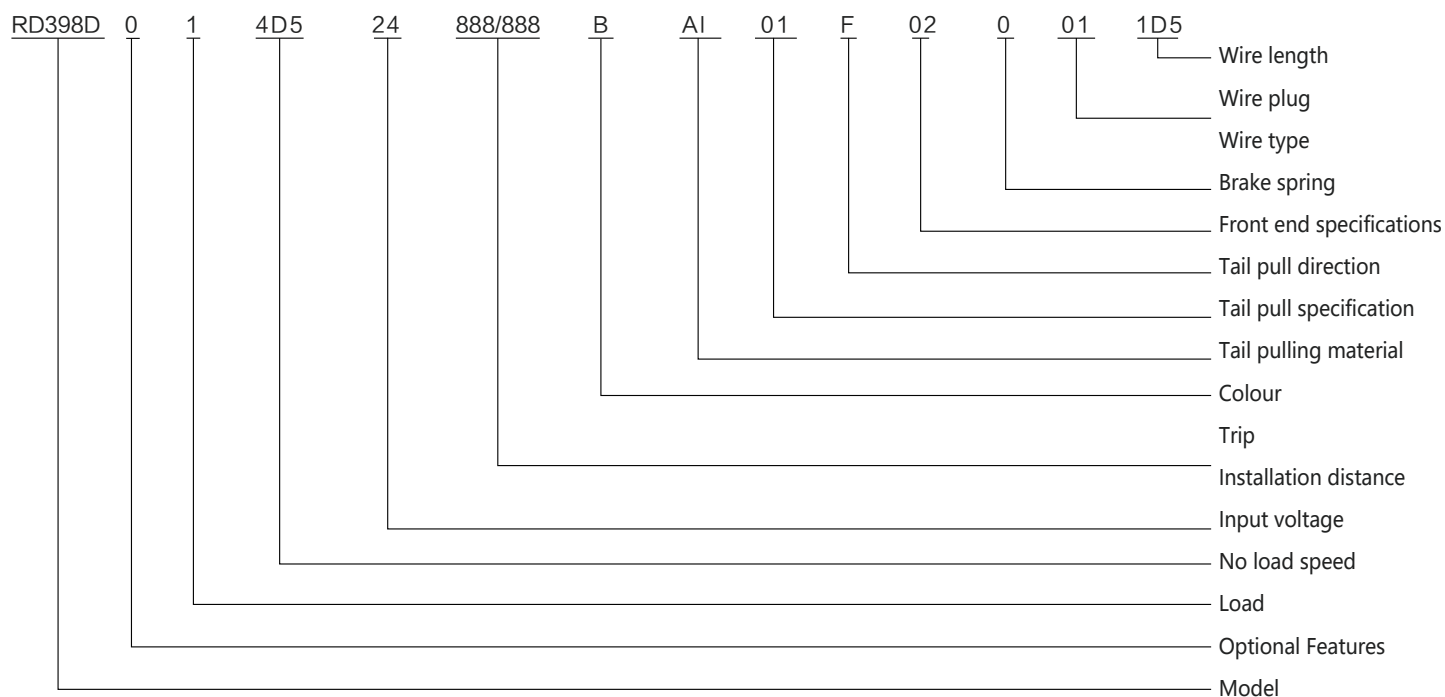
Note: the above data is the average value of test data at room temperature of 25 °C

Naming rules example

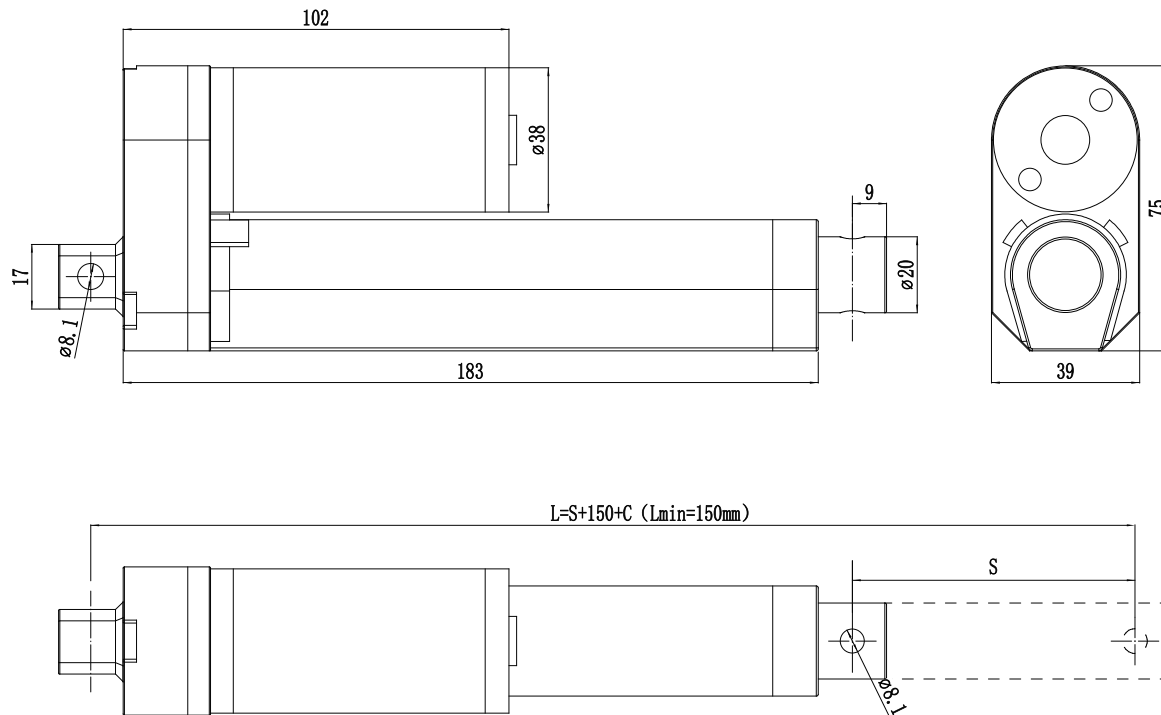
Model	RD398C	
Optional function		0=Standard G=With reed pipe P=Anti pinch hand
Load		1=1000N 2=2000N
No-load speed*D*		3-30mm/s (Example: 4D=4mm/s 、 4D5=4.5mm/s)
Input voltage		24=24VDC 29=29VDC
Stroke / Installation distance		Stroke=XXX / Installation distance=XXX
Color		A=White B=Black
Tail pull material		Al=Aluminium alloy
Tail pull specification		01=Groove width8.2, groove depth32, hole diameter of cushion sleeve8.1
Tail pull direction		F=0°
Front end specification		02= front iron head not slotted
Brake spring		0=No brake function
Wire plug Wire type		01=2-core 4-pin straight line insertion 02=2-core 4-pin linear bending plug 03=4-core 4-pin straight line insertion 04=4-core 4-pin linear bending plug
Wire length*D*		Example 1D5=1.5m 、 2D0=2.0m

RD398D

示例



Product dimension drawing

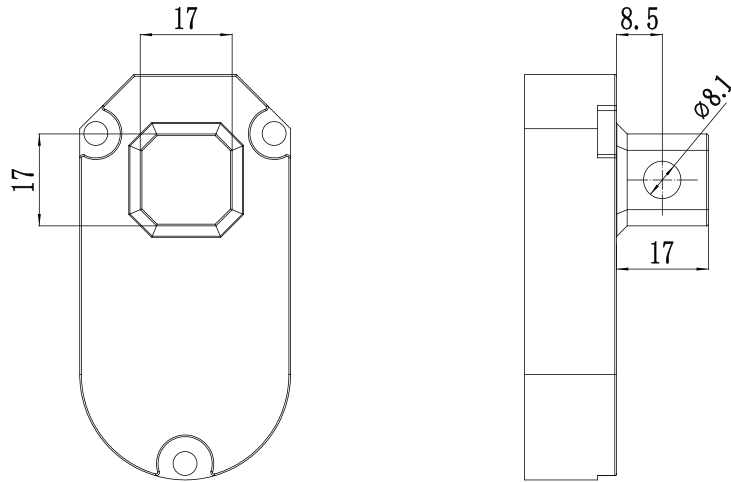


$L = 150\text{mm} + \text{stroke (S)} + \text{safety distance (C)}$

Stroke S (mm)	Safe distance C (mm)
$40 < S \leq 110$	--
$111 < S \leq 200$	--
$200 < S \leq 250$	5
$250 < S \leq 300$	10
$300 < S \leq 350$	15
$350 < S \leq 400$	20
$400 < S \leq 450$	25
$450 < S \leq 500$	30
$500 < S \leq 550$	35
$550 < S \leq 600$	40

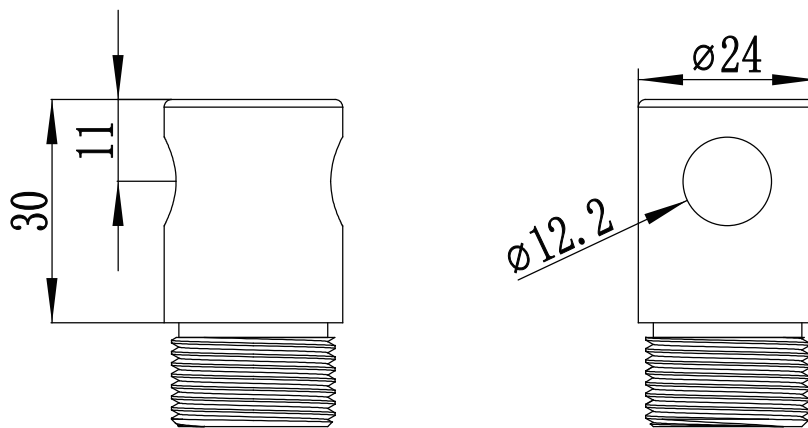
Pulling head dimension drawing

Tail Pull:



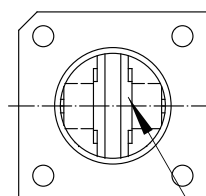
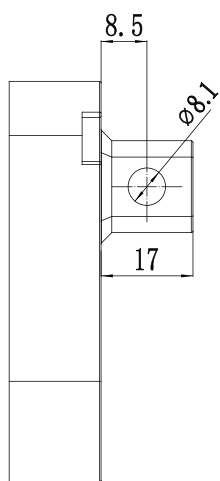
Front Pull:

front end no sloting:



Tail pull direction

$F=0^\circ$

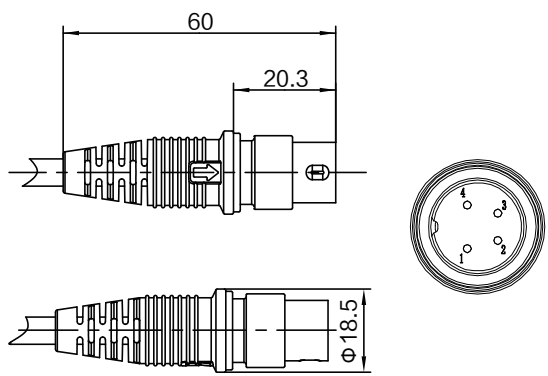


The through hole
centerline is parallel
to the ground

Motor line

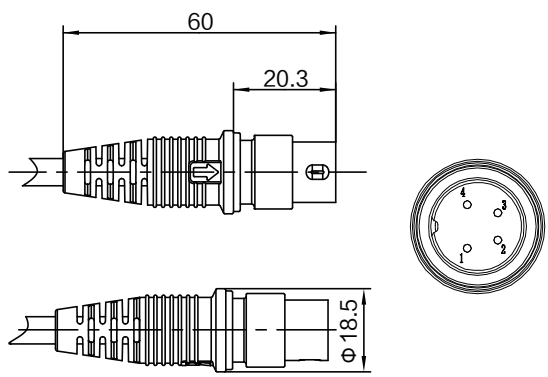
Motor line: 2P4Z 4P4W 2P4Z 4P4W

2-core 4-pin straight line insertion



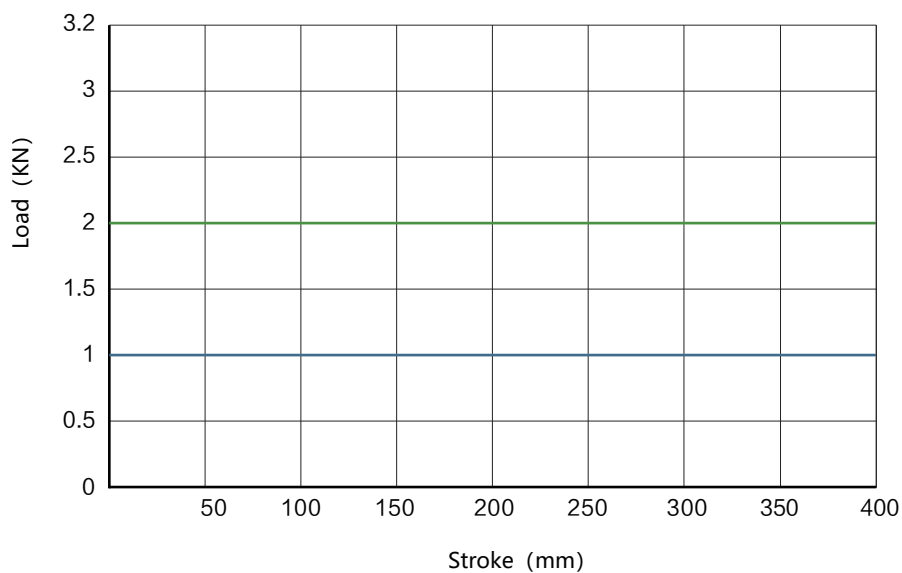
2-core 4-pin straight line insertion		
PINS	Color	Function
1	NG	Not connected
2	Brown	Motor positive stage
3	Blue	Motor negative stage
4	NG	Not connected
Outer ring	NG	Not connected

4-core 4-pin straight line insertion



4-core 4-pin straight line insertion		
PINS	Color	Function
1	Yellow	Signal reception
2	Brown	Motor positive stage
3	Blue	Motor negative stage
4	White	Signal output
Outer ring	NG	Not connected

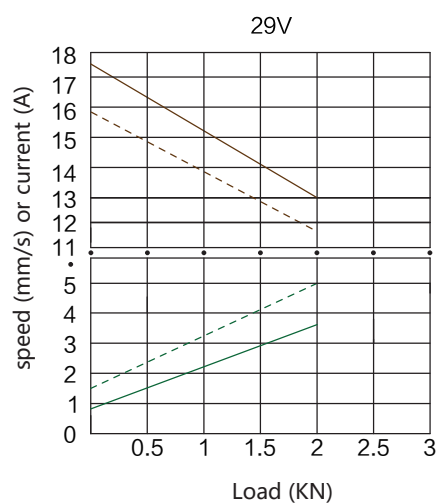
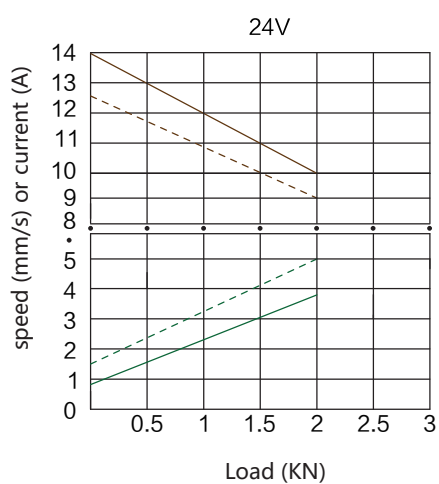
Relationship between stroke and load



Characteristic curve

RD-398D 1000N current, speed and load relationship diagram

Typical speed — Minimum speed - - - Typical current — Maximum current - - -



Characteristic curve

RD-398D 2000N current, speed and load relationship diagram

Typical speed — Minimum speed — Typical current — Maximum current —

