

Actuator ID10BT

ID10BT has a maximum push/pull force of 1000N, but it has high speed and low noise performance. Durable and waterproof, it is suitable for industrial applications with lighter loads but emphasizing speed performance.



Features and Options

Main application: Industry Standard features:

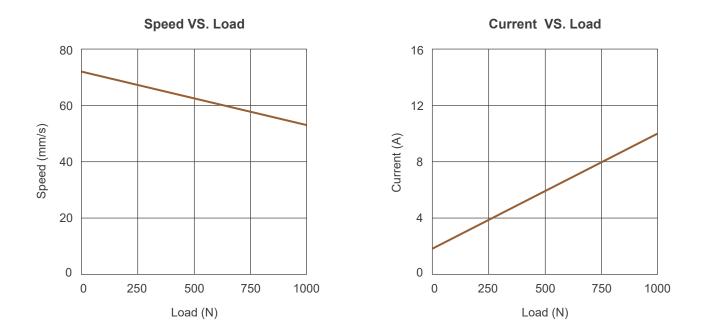
- Input voltage: 24V DC
- Max. rated load: 1000N (Push/Pull)
- Max. static load: 1500N
- Max. speed at no load: 72mm/sec (Typical value)
- Spindle type: ACME screw
- Gear ratio 4:1
- Stroke: 102 / 153 / 203 / 254 / 305 / 457mm
- Life cycle: 25,000 cycles, total stroke 18,000,000mm
- Noise level: ≦55dB
- IP level: IP65 (Static; non-action)
- Built-in CAM type limit switches (LT)
- Extension tube material: Electroplated steel
- Color: Black
- Duty cycle: 25%, max. 2 min. continuous operation in 8 min.
- Operating ambient temperature: -25°C ~ +65°C
- Certified: CE Marking, EMC Directive 2014/30/EU

Options:

- Analog and absolute positioning feedback with Potentiometer (POT)
- IP level: IP66/IP69K (Static; non-action)

Performance Data

Model No.	Push / Pull	* Typical Speed (mm/s) * Typical Current			nt (A) @ 24V DC
model No.	Max. (N)	No Load	Full Load	No Load	Full Load
ID10BT-24 F5A -XXX-0X0XLX0	1000	72	53	1.8	10



Remarks:

* The typical speed or typical current means the average value neither upper limit nor lower limit. The performance curves are made with typical values.

Dimensions

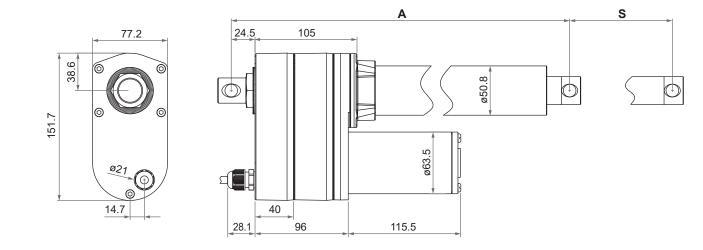
Retracted length (A)

Stroke (S)	102 (4")	153 (6")	203 (8")	254 (10")	305 (12")	457 (18")
Retracted length (A)	359	410	460	511	613	765

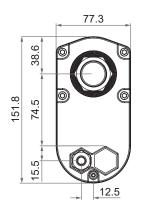
(Tolerance: ±5mm)

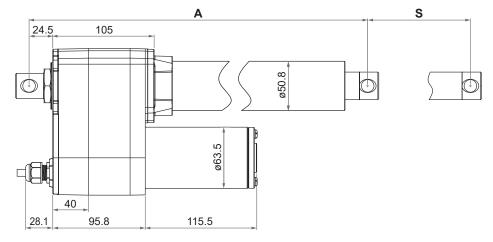
Drawing

• IP65 (Standard)



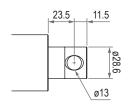
• IP66/IP69K (Option)





Unit: mm

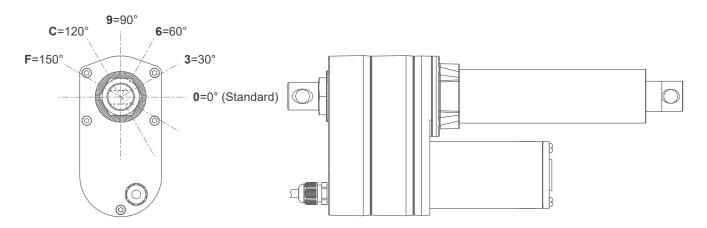
Front connector



Rear connector



Pivot orientation of rear connector



Note: As an example in 0° pivot of rear connector.

Unit: mm

Compatibility

Product	Model	ID10BT spec
Controller	CI72	Standard
Accessory	MB30 mounting bracket (Fig. 1)	Standard, mounting hole ø13mm



Fig. 1

Wiring

• Basic, without positioning feedback.

	Wire color	Definition	Descriptions			
Power	Red	DC Power	Connect red wire to "Vdc +" & black wire to "Vdc -" of DC power to			
wires	Black	DOTOWER	extend the actuator. Switch the polarity of DC input to retract it.			

• With Potentiometer (POT) absolute positioning feedback

	Wire color	Definition	De	escriptions	
Power wires	Red Black	DC power	Connect red wire to "Vdc +" & black wire to "Vdc -" of DC power to extend the actuator. Switch the polarity of DC input to retract it.		
	Yellow	Vin	Input voltage 70V max.		
Signal wires	Blue		 Potentiometer specification: 10K ohm, 10 turns. Tolerance ±5% Output voltage: The voltage (resincreases linearly from about 0 v decreases when it retracts. B W ^ There are different resolutions at (as table below) 	when the actuator extends, and	
			Stroke (mm)	Resistance (tolerance: ±0.3KΩ)	
			102 (4")	0.3 ~ 8.1K	
			153 (6")	0.3 ~ 8.7K	
			203 (8")	0.3 ~ 9.2K	
			254 (10")	0.3 ~ 7.4K	
			305 (12")	0.3 ~ 8.8K	
			457 (18")	0.3 ~ 9.4K	
	White	GND			

Certifications

ID10BT actuator is compliant with the following regulations, in terms of the essential conformity requirements of EMC Directive of 2014/30/EU.

Emission	Immunity
EN55014-1:2017+A11:2020	EN 55014-2:2015

Ordering Key

	ID10BT - 24 F5A - 102 - 0 0 0 P L 5 0
Input voltage	24: 24V DC
Motor and spindle type	F5A: 3700rpm, 5.08mm pitch, ACME screw
Stroke	102: 102mm (4") 153: 153mm (6") 203: 203mm (8") 254: 254mm (10") 305: 305mm (12") 457: 457mm (18")
Reserved	0
Pivot orientation of rear connector (Refer to Page 4)	0: 0° (Standard) 3: 30° 6: 60° 9: 90° C: 120° F: 150°
Reserved	0
Positioning feedback	0: None P: Potentiometer (POT)
Limit switch	L: Limit switches (Default)
IP level	5: IP65 (Standard) 9: IP66/IP69K
Cable length	 0: 250mm straight 1: 500mm straight 3: 1000mm straight 5: 1500mm straight



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