

# 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 applications: Industrial

#### Standard features:

- Input voltage: 24V DC
- Max. rated load: 1,000N (push or pull)
- Max. static load: 1,500N
- Max. speed at no load: 72mm/sec (typical value)
- Spindle type: ACME
- 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: IP54
- Built-in CAM type limit switches (LT)
- Aluminum outer tube
- Stainless steel extension tube
- Color: Black
- Power cord length: 250mm (with bare wires)
- Duty cycle: 25%, max. 2 min. continuous operation in 8 min.
- Operating ambient temperature: -25°C ~ +65°C
- Compliant with EMC Directive 2014/30/EU

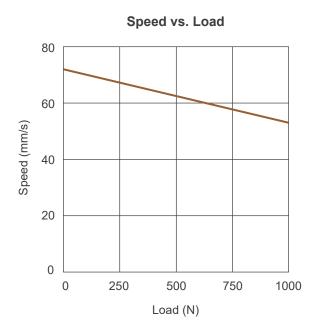
#### Options:

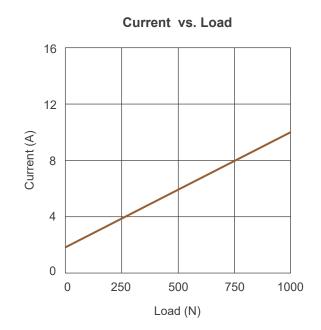
- Analog and absolute positioning feedback with Potentiometer (POT)
- IP level: IP65

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# **Performance Data**

Model No.	Push/Pull Max. (N)	*Typical Sp	peed (mm/s)	*Typical Current (A) @ 24V DC	
model No.		No Load	Full Load	No Load	Full Load
ID10BT-24 <b>F5A</b> -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.

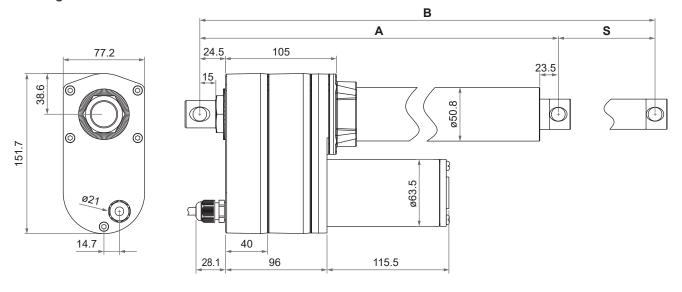
## **Dimensions**

- Extended length (B) = Retracted length (A) + Stroke (S)
- Retracted length (A)

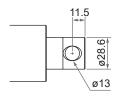
Stroke (S)	102 (4")	153 (6")	203 (8")	254 (10")	305 (12")	457 (18")
Retracted length (A)	359	410	460	511	613	765

(tolerance: ±5mm)

#### • Drawing



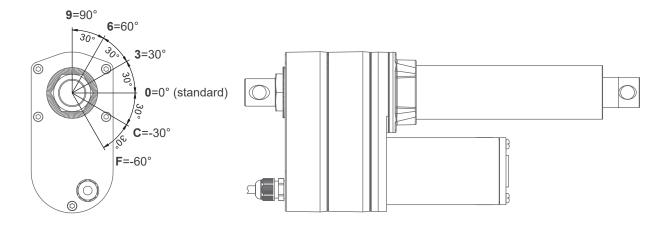
#### • Front connector



#### • Rear connector



#### • Pivot orientation of rear connector



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

Unit: mm

# Compatibility

Product	Model	ID10BT spec		
Control box	CI10	Without positioning feedback		
Control box	CI72	Standard		
Accessory MB30 Mounting bracket		Standard, mounting hole ø13mm.		

# 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		extend the actuator. Switch the polarity of DC input to retract it.	

# • With Potentiometer (POT) absolute positioning feedback

	Wire color	Definition	Descriptions		
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.		
	White	GND	ND ND		
	Yellow	Vin	Input voltage 70V max.		
Signal wires	Blue	POT output	Stroke (mm)  102 (4")  153 (6")  203 (8")  254 (10")  305 (12")  457 (18")	ling to different strokes are as follows:  Resistance (tolerance: $\pm 0.3 \text{K}\Omega$ ) $0.3 \sim 8.1 \text{K}$ $0.3 \sim 8.7 \text{K}$ $0.3 \sim 9.2 \text{K}$ $0.3 \sim 7.4 \text{K}$ $0.3 \sim 8.8 \text{K}$ $0.3 \sim 9.4 \text{K}$	

# **Ordering Key**

