

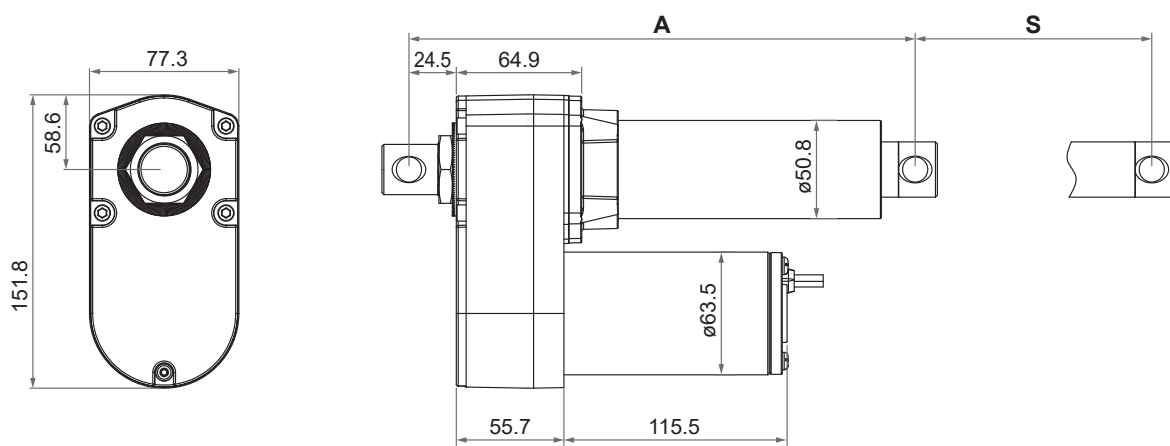




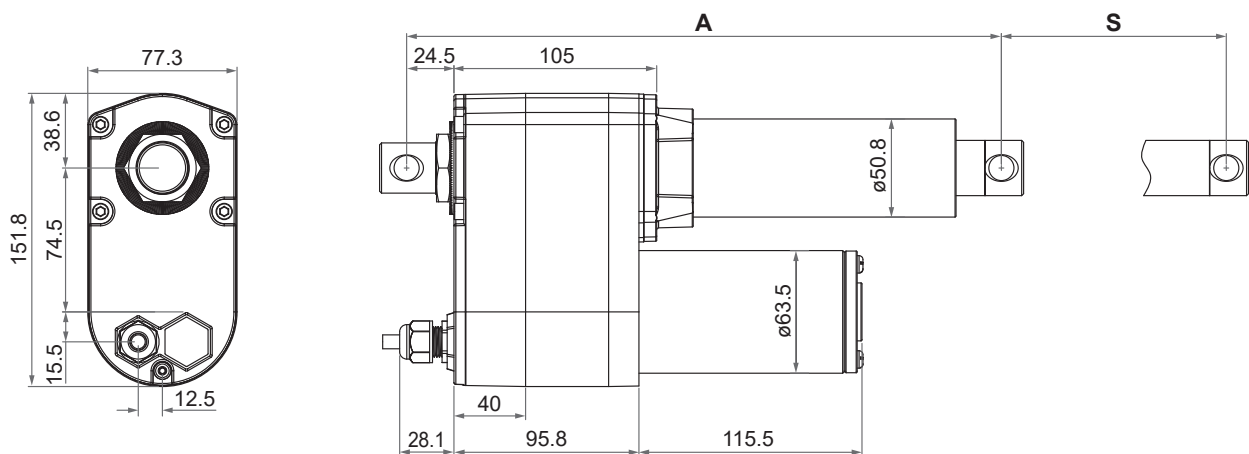


B. IP66/IP69K (Option)

- Basic (Without limit switch nor positioning feedback)



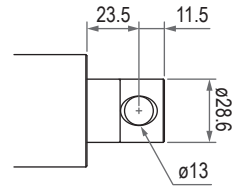
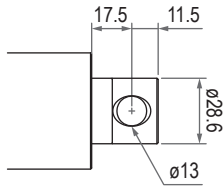
- With limit switches or positioning feedback



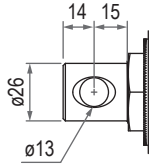
● **Front connector**

- Basic (Without limit switch nor positioning feedback)

- With limit switches or positioning feedback

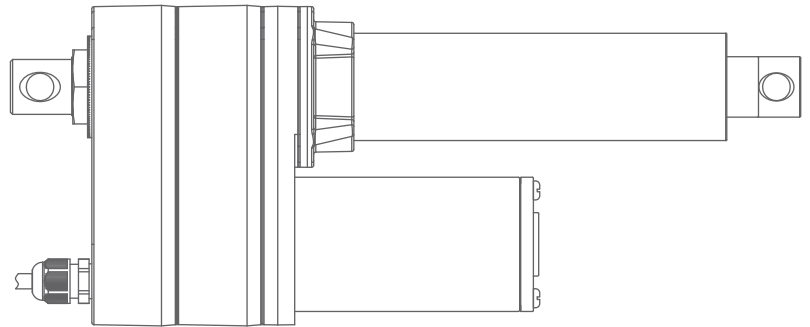
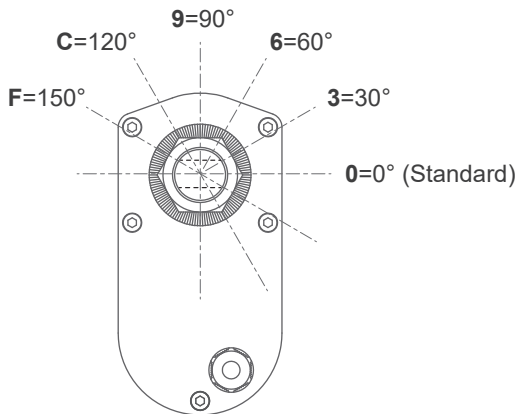


● **Rear connector**



Unit: mm

● **Pivot orientation of rear connector**



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

## Compatibility

Product	Model	ID10K spec
<b>Controller</b>	CI72	Standard
<b>Accessory</b>	MB30 mounting bracket (Fig. 1)	Standard, mounting hole $\varnothing$ 13mm.



Fig. 1



ID10K in-position control needs to cooperate with the limit switch option or set an external limit switch. If you choose positioning signal feedback with single Hall effect sensor, it is recommended that the actuator can be used with a controller such as CI72 to provide software stroke limit. ID10K can not use clutch overload protection as an in-position control, otherwise it will seriously reduce the service life of the actuator.

## Wiring

### • Basic (Without limit switch nor positioning feedback)

Gear ratio: 20:1

	Wire color	Definitions	Descriptions
Power wires	Red	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.
	Black		

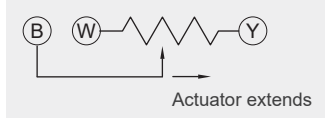
Gear ratio: 40:1

	Wire color	Definitions	Descriptions
Power wires	Red	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.
	Black		

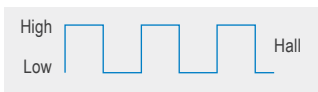
### • With limit switches (Without positioning feedback)

	Wire color	Definitions	Descriptions
Power wires	Red	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.
	Black		

### • With Potentiometer (POT) absolute positioning feedback

	Wire color	Definitions	Descriptions																
Power wires	Red	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.																
	Black																		
Signal wires	Yellow	Vin	Input voltage 70V max.																
	Blue	POT output	<p>1. Potentiometer specification:</p> <ul style="list-style-type: none"> <li>- 10K ohm, 10 turns.</li> <li>- Tolerance <math>\pm 5\%</math></li> </ul> <p>2. Output voltage: The voltage (resistance) between blue and white increases linearly from about 0 when the actuator extends, and decreases when it retracts.</p>  <p>3. There are different resolutions according to the stroke length (as table below)</p> <table border="1"> <thead> <tr> <th>Stroke (mm)</th> <th>Resistance (tolerance: <math>\pm 0.3K\Omega</math>)</th> </tr> </thead> <tbody> <tr> <td>102 (4")</td> <td>0.3 ~ 7.3K</td> </tr> <tr> <td>153 (6")</td> <td>0.3 ~ 8.7K</td> </tr> <tr> <td>203 (8")</td> <td>0.3 ~ 7.3K</td> </tr> <tr> <td>254 (10")</td> <td>0.3 ~ 9.1K</td> </tr> <tr> <td>305 (12")</td> <td>0.3 ~ 7.9K</td> </tr> <tr> <td>457 (18")</td> <td>0.3 ~ 9.4K</td> </tr> <tr> <td>610 (24")</td> <td>0.3 ~ 8.2K</td> </tr> </tbody> </table>	Stroke (mm)	Resistance (tolerance: $\pm 0.3K\Omega$ )	102 (4")	0.3 ~ 7.3K	153 (6")	0.3 ~ 8.7K	203 (8")	0.3 ~ 7.3K	254 (10")	0.3 ~ 9.1K	305 (12")	0.3 ~ 7.9K	457 (18")	0.3 ~ 9.4K	610 (24")	0.3 ~ 8.2K
	Stroke (mm)	Resistance (tolerance: $\pm 0.3K\Omega$ )																	
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254 (10")	0.3 ~ 9.1K																		
305 (12")	0.3 ~ 7.9K																		
457 (18")	0.3 ~ 9.4K																		
610 (24")	0.3 ~ 8.2K																		
White	GND																		

• With single Hall effect sensor positioning feedback

	Wire color	Definitions	Descriptions
Power wires	Red	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.
	Black		
Signal wires	Yellow	Vin	Voltage input range: 5 ~ 20V
	Blue	Hall output	High= Input - 1.2V ( $\pm 0.6V$ ) Low= GND Hall signal data:  Hall effect sensor resolution: 1.0 pulse/mm
	White	GND	



## Ordering Key

		ID10K-	12	G4A	40	102	0	0	0	P	L	5	0
<b>Input voltage</b>		12: 12V DC 24: 24V DC											
<b>Motor and spindle type</b>		G4A: 4500rpm / 4mm pitch / ACME screw											
<b>Gear ratio</b>		20: 20:1 40: 40:1											
<b>Stroke</b>		102: 102mm (4") 153: 153mm (6") 203: 203mm (8") 254: 254mm (10") 305: 305mm (12") 457: 457mm (18") 610: 610mm (24")											
<b>Front connector</b>		0: Standard											
<b>Rear connector</b>		0: Standard											
<b>Pivot orientation of rear connector</b> (Refer to Page 5)		0: 0° (Standard) 3: 30° 6: 60° 9: 90° C: 120° F: 150°											
<b>Positioning feedback</b>		0: None P: Potentiometer (POT) H: Hall effect sensor x 1											
<b>Limit switches</b>		0: None L: Limit switches											
<b>IP level</b>		5: IP65 (Standard) 9: IP66/IP69K											
<b>Cable length</b>		0: 250mm straight 1: 500mm straight 3: 1000mm straight 5: 1500mm straight											