

User Guide

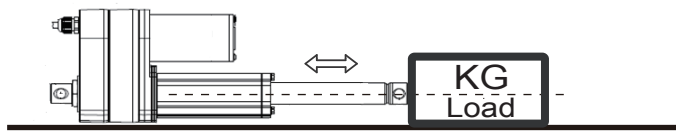
Industrial Actuator

Model: 01US12

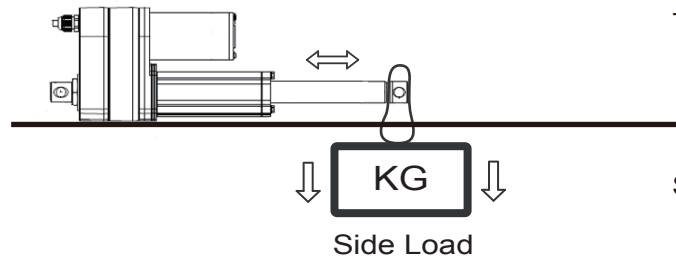


External adjustable reed sensor
NC type (normal close)

CAUTION:



The load should be centered on the operating direction.



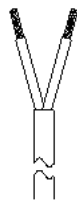
Side Load is NO good for actuators.

WIRE CONNECTION

For ID12 actuators, connection rule of power wires varies according to different types and gear ratio(s). Please follow the instructions below.

Standard Type

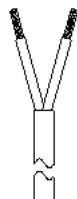
- Please refer to the table below to define the actuator's extension. Red and Black is the color of wires, M+ is "+" and M- is "-" of DC power.



Gear Ratio	Wiring	
	5:1, 10:1, 20:1	Red
Black		M-
30:1, 40:1	Red	M-
	Black	M+

With Limit Switch Type

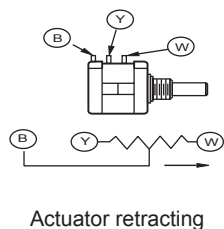
- Please refer to the table below to define the actuator's extension. When Red (M+) is connected to "+" and Black (M-) is connected to "-" of DC power the actuator will extend.



Wiring	
Red	M+
Black	M-

With Potentiometer Type

- Please refer to the table below to define the actuator's extension. When Red (M+) is connected to "+" and Black (M-) is connected to "-" of DC power the actuator will extend.
- White, Yellow & Blue are positioning signal wires as shown in table.
- The resistance between Blue and White wires increases when extending, and decreases when retracting.



Value of Potentiometer

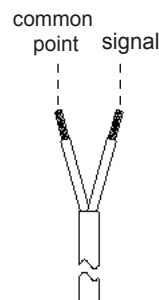
The Ohm value between blue and white wire	
Stroke(mm)	Resistance
100	0.3-8.0 K
150	0.3-8.5 K
200	0.3-9.1 K
300	0.3-8.6 K
450	0.3-9.2 K
600	0.3-9.8 K
Tolerance: ± 0.3 K	



Wiring	
Red	M+
Black	M-
White	GND
Yellow	VCC
Blue	Data

External Reed Sensors

- Pick any wire of each sensor and connect them as common point, then define the rest one as signal input.
- How to change the position of reed sensor:
 - step 1. Loosen the screws.
 - step 2. Slide sensor to the correct position.
 - step 3. Tighten the screws and make sure the sensor is fixed.



SAFETY DECLARATION

This appliance cannot be used by children or persons with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction.