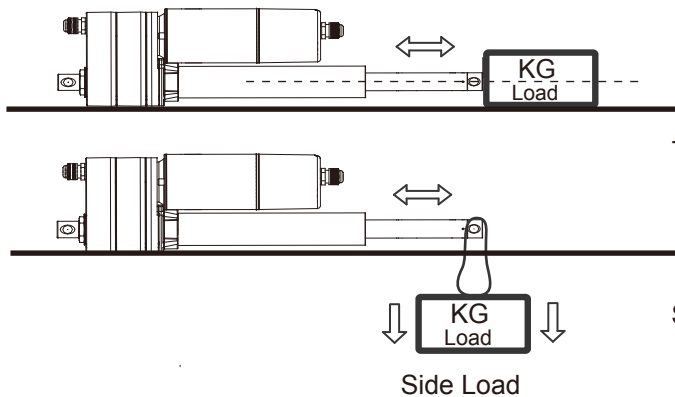


## Industrial Actuator

Model: IA5



### CAUTION:



### LIMIT SWITCH

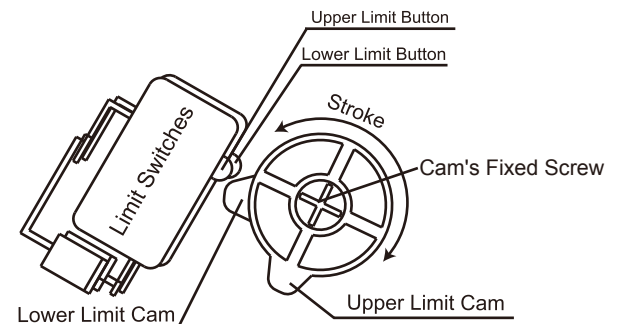
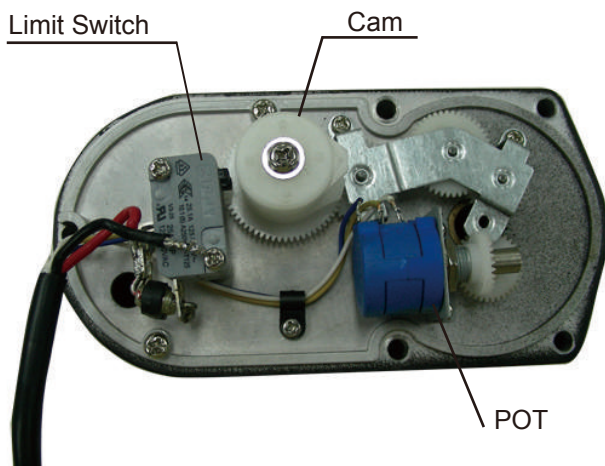
#### Caution

Make sure no rotating of the inner tube while the motor is running.

#### RESET LIMIT

The most extended position is defined by the "Upper Limit Cam", and the most retracted position is defined by the "Lower Limit Cam" as well. Please set the limit positions just follow the rules below, if necessary.

- Step 1. If the actuator has been installed, uninstall it first and then remove the gearbox cover.
- Step 2. Connect the power wire to correct AC power and let the actuator starts retracting till the switch of lower limit is pressed by Cam, then the motor stops immediately. Now you can turn the inner tube in clockwise or counter-clockwise direction to the demanded position. Then, the lower limit is set.
- Step 3. Let the actuator extends to the position you want, and adjust the "Upper Limit Cam" to press the upper limit switch directly, then the demanded stroke is done after you lock the Cam's screw.
- Step 4. This operation can be executed only on IA5 with IP54 grade, and there is an extra paper seal for replacement after resetting limit. It's forbidden to execute this operation on IA5 with IP65 grade.



**Note 1 : To avoid damaging the plastic gears under the Limit Cam, please hold Upper & Lower Limit Cam when you tighten or loosen the cam's screw .**

## WIRE CONNECTION

There are 2 ways of power wiring, it is base on the gear ratio, when choosing the standard or equipped POT IA5 actuator, then follow the rules below:

### Standard or equipped POT

- If the gear ratio is 5:1/10:1/20:1, connect red & white wire to extend, red & black wire to retract, as shown in Figure 1.
- If the gear ratio is 30:1/40:1, connect red & black wire to extend, red & white wire to retract, as shown in Figure 2.

5:1/10:1/20:1

- ① Red+White : Extend
- ② Red+Black : Retract
- ③ Red : Common point
- ④ Green + Yellow : Ground

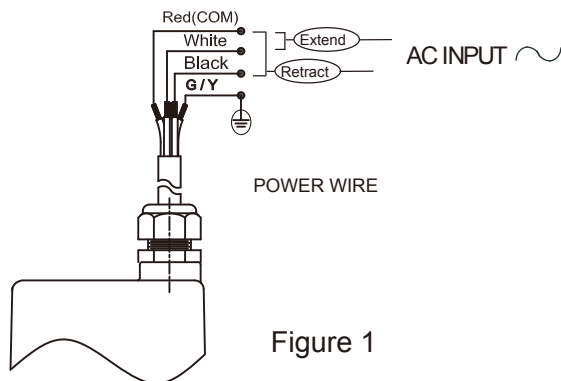


Figure 1

30:1/40:1

- ① Red+Black : Extend
- ② Red+White : Retract
- ③ Red : Common point
- ④ Green + Yellow : Ground

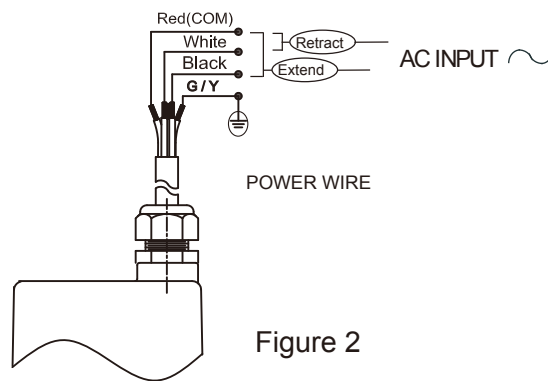
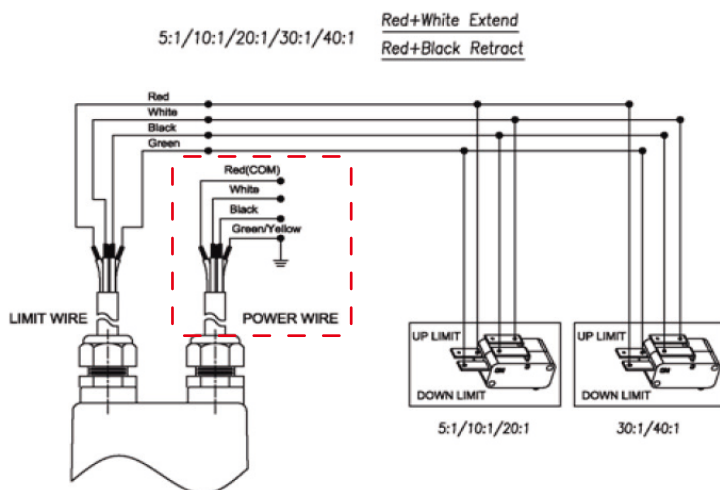


Figure 2

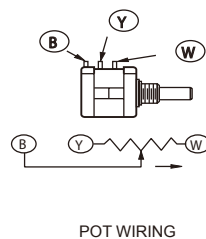
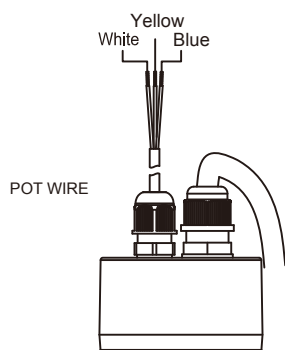
### Equipped Limit Switch or Limit Switch and POT

- Connect red & white wire to extend.
- Connect red & black wire to retract.



### POT wiring and value

- The POT value vs. stroke as shown in the table:



#### Value of Potentionmeter

The Ohm value between blue and white wire	
Stroke(mm)	Resistance
102	0.3~8.1 K
153	0.3~8.7 K
203	0.3~9.2 K
254	0.3~7.4 K
305	0.3~8.8 K
457	0.3~9.4 K
610	0.3~9.9 K
Tolerance: ± 0.3K	

## NOTE

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.



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