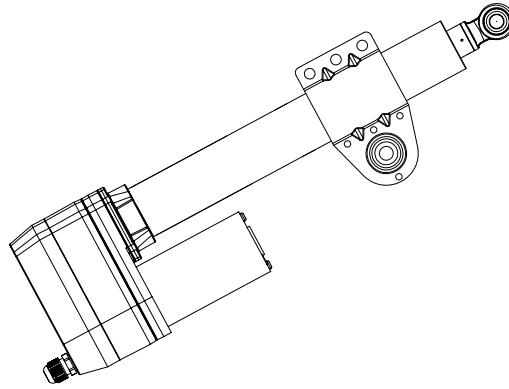


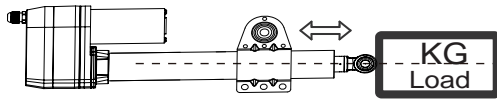
# User Guide

## Industrial Actuator

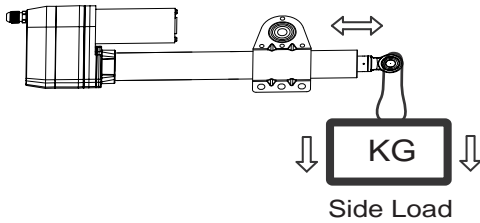
Model: 01US10S



**Caution:** 1. Avoid in any case to cause side load on actuator, to prolong life of actuator

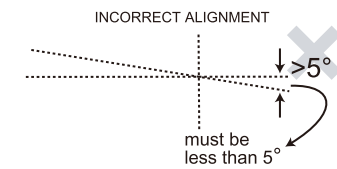
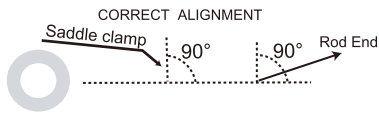


The load should be centered on the operating direction.

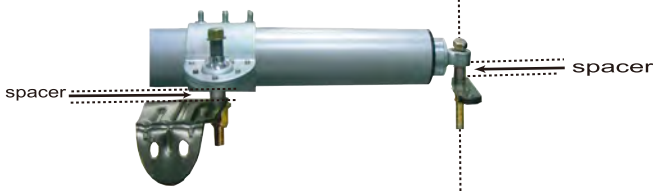


Side Load is NO good for Actuator.

2. Avoid incorrect assembly of rod end and saddle clamp



When inspecting from the side, actuator should be as perpendicular as possible to the rod end and saddle clamp.



If there is blocking when actuator extends or retracts, put spacers or washers between mounting and clamp or rod end as shown in the left picture.

3. Lock the screws



Make sure all the holes of rod end and clamp are at the right position, then lock all the screws, and then confirm all of them are tightened enough. It is recommended to lock the screws of clamp first.

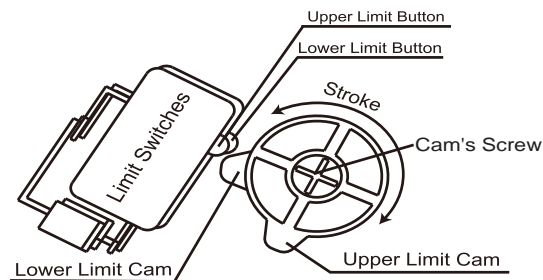
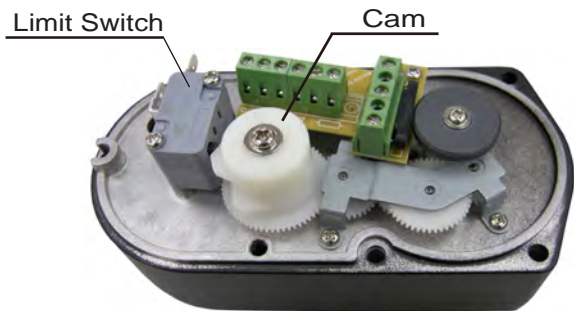
**Caution:**

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.

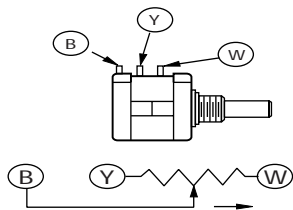
- Step 1. If the actuator has been installed, uninstall it first and then remove the gearbox cover.
- Step 2. Connect the power wire to correct DC power and let the actuator starts retracting till the switch of lower limit is pressed by Cam, then the motor stops immediately. Now you can turn the inner tube in clockwise or counter-clockwise direction to the demanded position. Then, the lower limit is set.
- Step3. 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.



**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 .

**POTENTIOMETER**

The resistance range is variable, according to the travel length, and stroke as below:

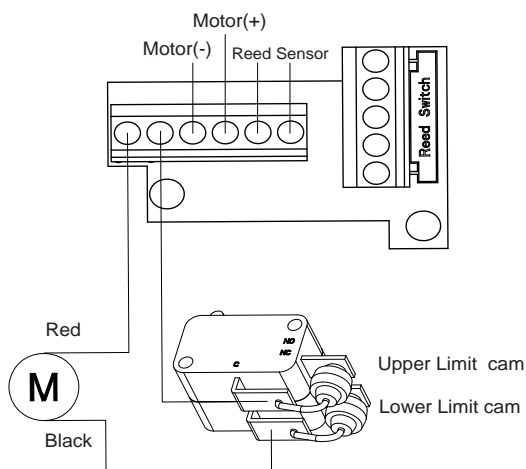


POT WIRING

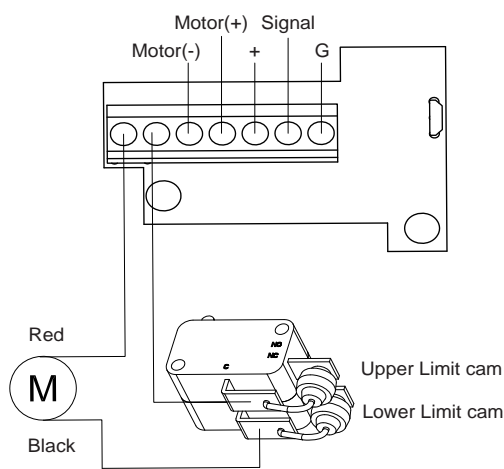
| Value of Potentiometer                    |            |
|---|------------|
| The Ohm value between blue and white wire |            |
| Stroke(mm)                                | Resistance |
| 100                                       | 0.3-8.0 K  |
| 150                                       | 0.3-8.5 K  |
| 200                                       | 0.3-9.1 K  |
| 300                                       | 0.3-8.6 K  |
| 457                                       | 0.3-9.2 K  |
| 610                                       | 0.3-9.8 K  |
| 900                                       | 0.3-9.2 K  |
| Tolerance: $\pm 0.3$ K                    |            |

**WIRE CONNECTION FOR SENSORS**

Reed Sensor Connection:



Hall Sensor Connection:



**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.