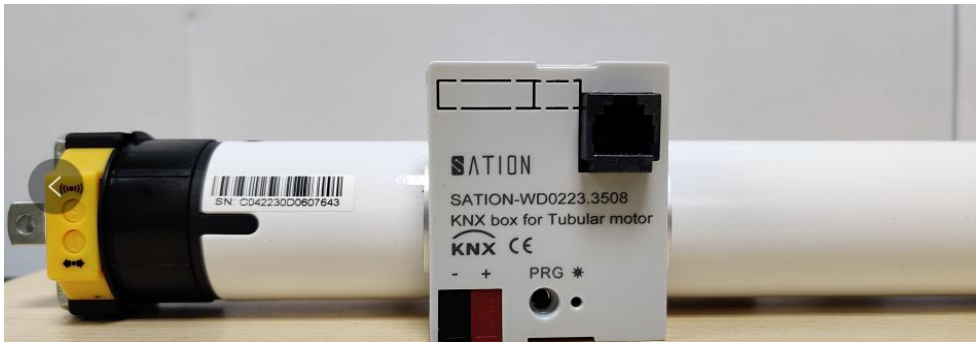
Super Quiet Motorized Tubular Motor User Manual V1.1

SATION-WD0223.3506，KNX Tubular Motor 35mm/6N.m
SATION-WD0223.3508，KNX Tubular Motor 35mm/8N.m
SATION-WD0223.3510，KNX Tubular Motor 35mm/10N.m



Copyright Clarify

Version

Version	Release Date	Remark
V1.0	Dec 21 2021	First Release
V1.1	Fed 23 2023	Second Modification

Notice

1. Please read this user manual carefully before using the product.
2. This product is used in indoor environment and installed in electrical control box.
3. Please install this product in a dry and ventilated place.
4. Before power on, please confirm the input voltage according to the manual;
   after power on, please confirm the normal output Voltage before connecting to the control bus.
5. Please make sure the secure shell is in good condition, if the shell is damaged, please stop using to avoid accident.
6. This product is NOT a toy, please make sure it is out of children touch.
7. Only be suitable for EIB/KNX system bus.
8. Others:
   The below sign indicates this product can't be dealt as ordinary family rubbish, in order to avoid the possible environment and human health harm caused by the electrical waste, this product must follow recovery processing. Please contact the local recycling department after this product is scrapped, to make sure it can go as the right waste processing procedure.

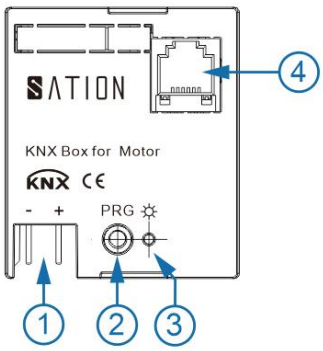
1 Product Introduce

Input Voltage	230VAC 50/60Hz
Power/ Current	115W/0.485A
KNX bus power	DC 21V~31V
Supply current	< 12mA
Control Method	KNX/RF
Rated Torque	WD0223.3506=6N*m;WD0223.3508=8N*m; WD0223.3510=10N*m
Rated Speed	WD0223.3506=28rpm;WD0223.3508=19rpm WD0223.3510=17rpm
KNX terminal	Cable that conforms to the KNX standard
Dimensions	504(L)*38.5(D)mm
Installation	Wall Mount
Protection Class	IP44
Insulation Class	H
Working temperature	-5℃~+45℃
Long-term storage temperature	-25℃~+55℃
Transit temperature	-30℃~+70℃

2 Function Overview

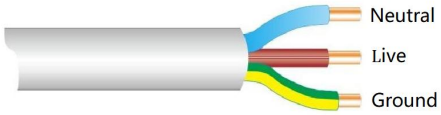
1) Six limit points can be set, and the power-off travel memory function.
2) KNX communication can feedback the working status and position information of the motor.
3) Supports two operation modes: click move and continuous movement operation.
4) The running direction of the motor can be switched.
5) Directly detect the number of rotations of the motor, with high positioning accuracy.
6) Support short-circuit protection function, and motor stop when encounter obstacles
7) Built-in superheterodyne receiving module, receiving sensitivity up to -110dBm.
8) Use helical gear reducer, more silent.

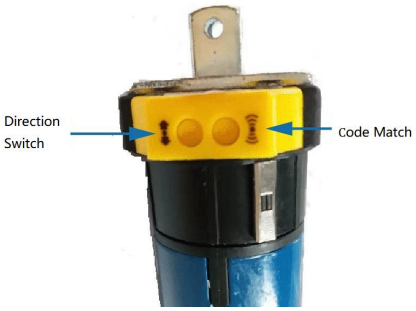
3 Product Interface



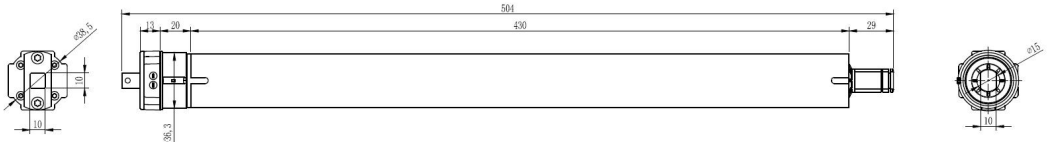
KNX Communication Gateway

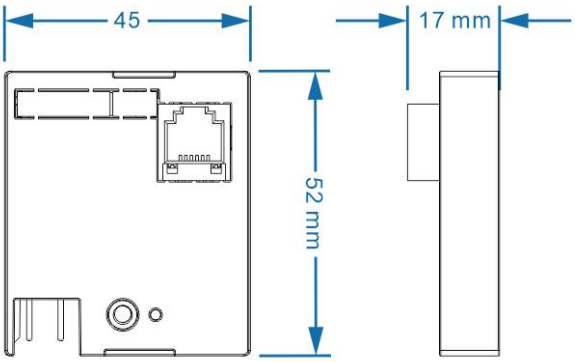
1, KNX interface
2, Prog Button
3, LED Indicator
4, Connection Port With Motor





4 Product Dimension

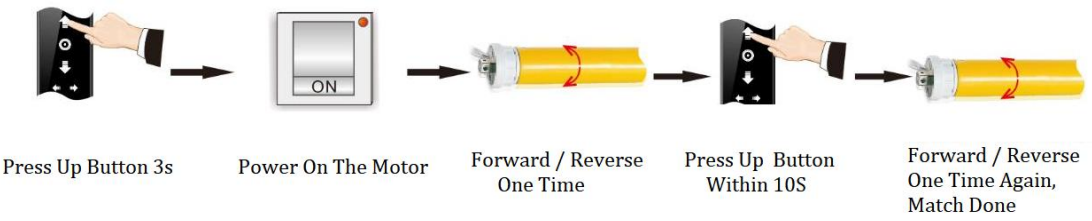




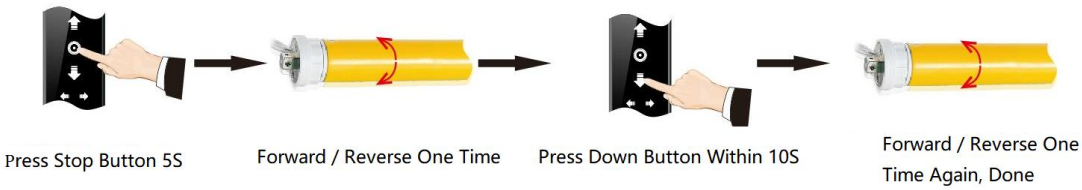
5 Operation Guide

Before setting, The tubular motor should be powered on first, and then plug KNX communicate gateway to KNX bus. After power on, address of the tubular motor will be set automatically.

5.1 Remote controller code match



5.1 Direction Switch



5.3 Limit Point

A. Up to 6 limit points can be set. The two most distant limit points are called upper/ lower limit points, the others are called middle limit point.

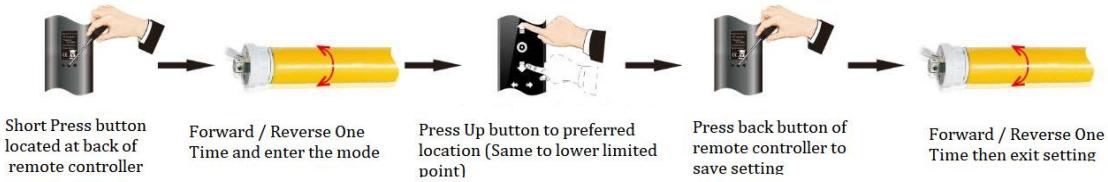
B. The first limit point can only be set as the upper limit or the lower limit. If it is the upper limit point,motor can only go up to this point, and other limit points can be set at any down position. Similarly, if the first limit point is the lower limit point, motor can only go down to this point at most, and other limit points can be set at any up position.

C. Each limit point can be individually fine-tuned and deleted. (The first limit point can only be fine-tuned and cannot be deleted individually, but the entire code can be cleared)

D. Receiving an up/down command will run from one limit point to the next limit point and stop. When reach the upper limit point, No response if press up button, also no response when press down button if reach the lower limit point.

E. Press the up/down key twice continuously at the frequency of pressing - once in 1 second, the motor will directly run to the upper/lower limit point, and will not be in the Stop at the middle limit point.

5.4 Set First Limit Point



Remark: If there is no operation within 30 seconds, the limit point setting mode will be exited

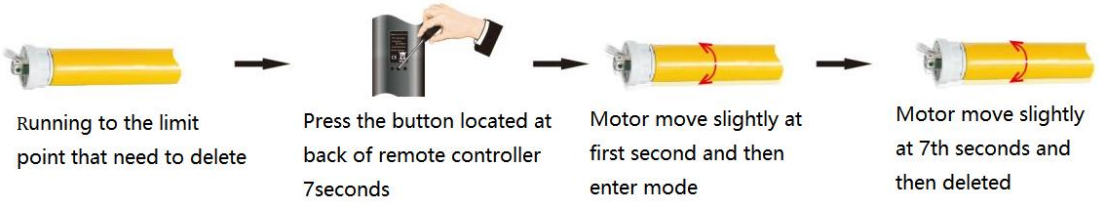
5.5 Set Other Limit Point

Remark: If there is no operation within 30 seconds, the limit point setting mode will be exited

5.6 Fine-tuning limit point

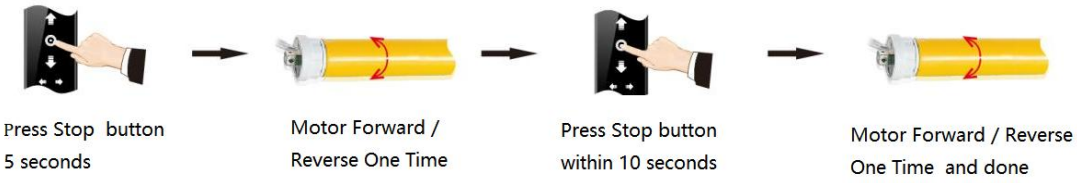
Remark: If there is no operation within 30 seconds, the limit point setting mode will be exited

5.7 Delete limit point



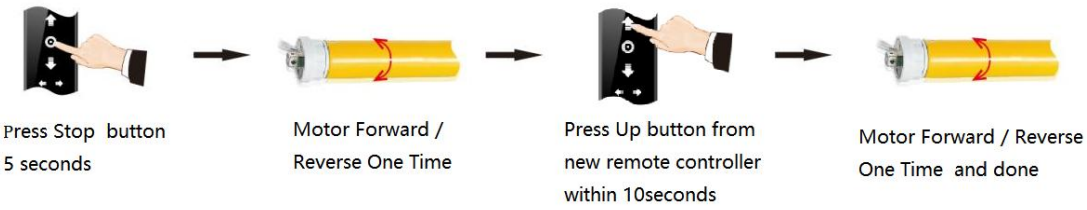
Remark: First limit point cannot be deleted, unless

5.8 Click move and continuous movement switch

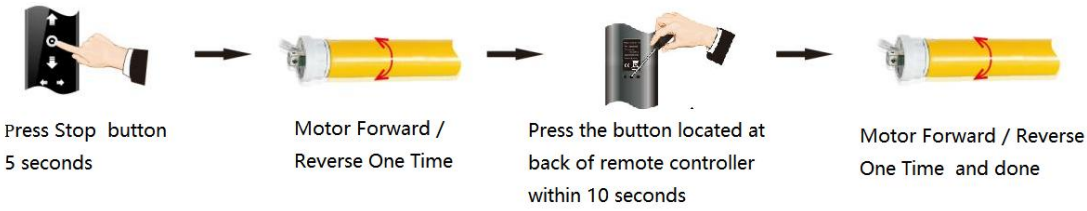


NOTE: User have to set limit and then click movement and continuous movement can be switched

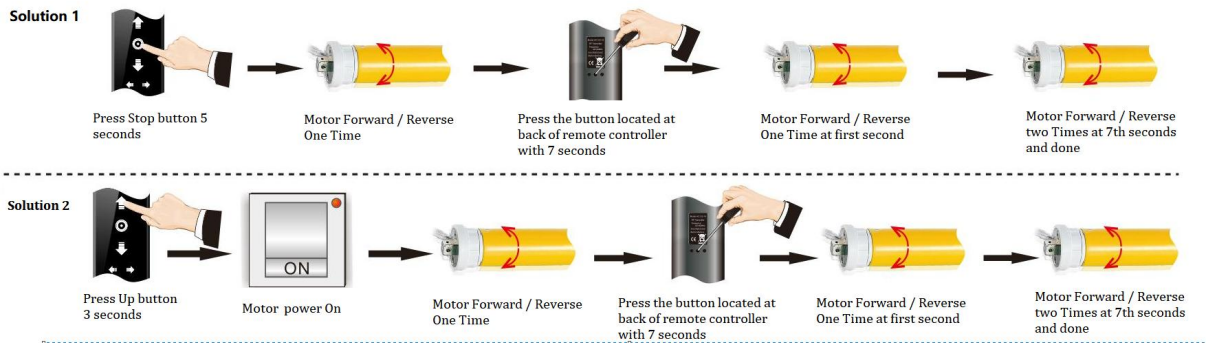
5.9 Add new remote controller



5.10 Delete singel code



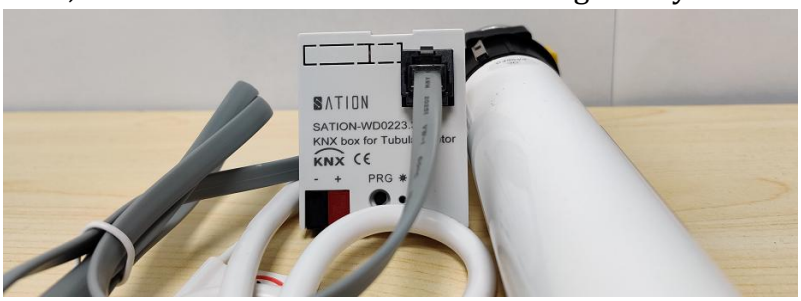
5.11 Delete all code



6 KNX Programming

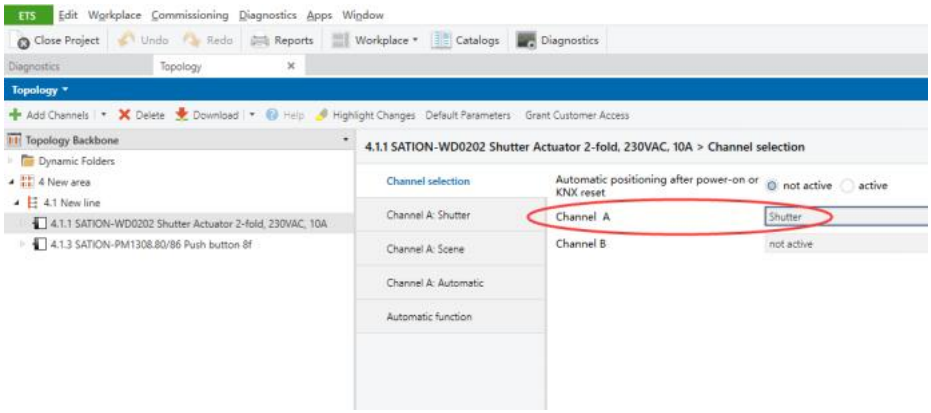
Before KNX programming, the upper and lower limit points should be set. The tubular motor should be powered on first, and then plug KNX communicate gateway to KNX bus. After power on, address of the tubular motor will be set automatically.

1) Tubular motor connect to knx communicate gateway by rj11 cable, Tubular motor power on, and then connect knx communicate gateway to KNX bus system

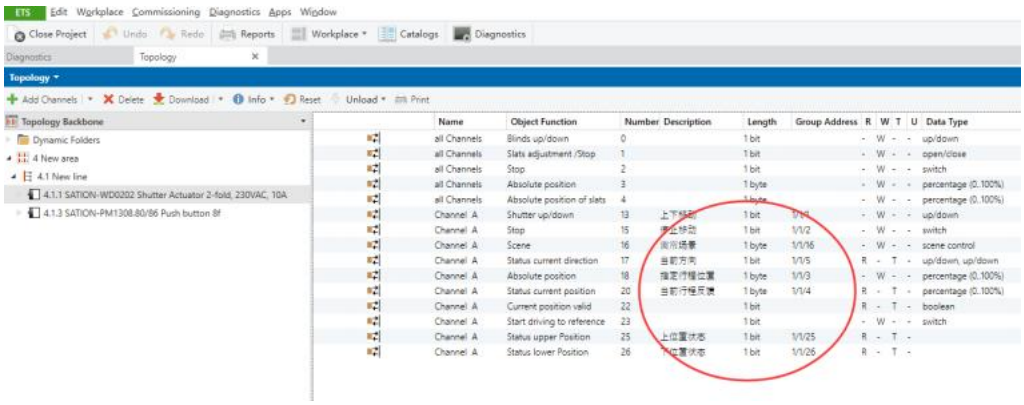


2) Press Prog button, LED light on

3) Import ETS file and choose CHANNEL A



4) Download after programming finished, LED indicator off



5) The motor is forward and reversed once, and communication between the tubular motor and the KNX communicate gateway is successful. Before the ETS download is complete, the tubular motor should be powered on first.