

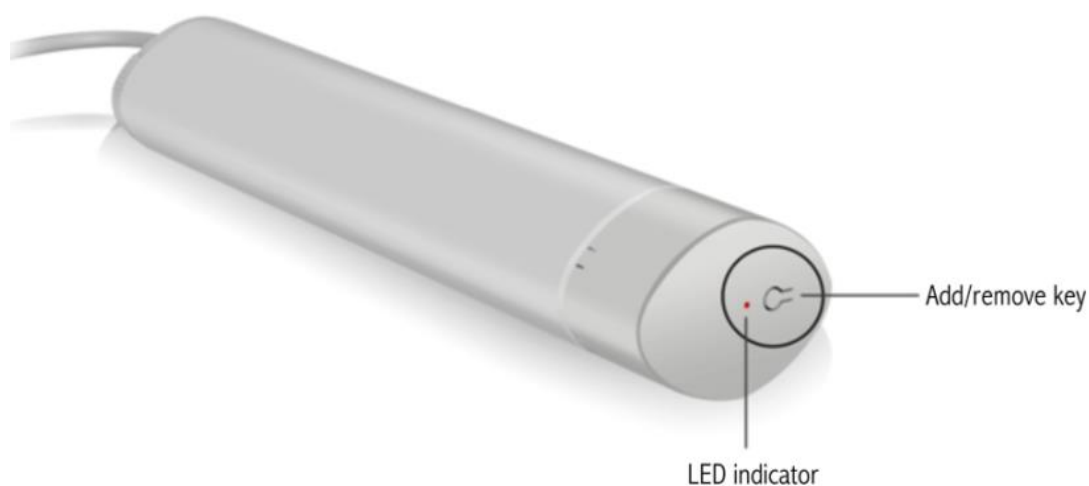
SK-3007-05DYA Curtain Motor Manual

Description

SK-3007-05 curtain motor is designed in accordance with CCC & EN standard and manufactured under the best quality control.

The motor is Z-wave wireless accessible and it can quickly, easily included and operated in any Z-Wave network with other Z-Wave certified devices from any other manufacturers, and it can be wireless control such as open/close window cover.

Meanwhile the curtain motor in the same network will act as repeaters regardless of the vendor in order to increase reliability of the network.



● Main parameters of motor

Manufacturer	DOOYA
Type	SK3007-05DYA
Torque (N.m)	1.2
Rated Speed(cm/s)	14cm/s
Rated Voltage(V)	100-240V
Rated Frequency(Hz)	50/60
Rated Power Input	13W
Rated Current(A)	0.14A
Rated Speed(r/min)	21 (r/min)
Net Weight(kg)	1.5kg
Degree of Protection	IP40
Rated O. T.	S2:12min
Rail length	6M
Load weight	50Kg
Certified	CCC/CE/ROHS

● Z-wave Technical Parameters

Operating voltage	DC 3- 5V
Quiescent curren	<4uA
Working current	<25mA
Operating frequency	868.42 MHz – China/Europe
	908.42 MHz –United States
	921.42 MHz – Australia
	869.22 MHz –Russia
Distance	30 meters indoor distance
	Outdoor straight: 40 meters
Working temperature	- 10°C ~+50°C
Relative humidity	≤95%RH

⌘ Device Information

ID	Number
Manufacture ID	0x032C
Production Type ID	0x3007
Production ID	0x0005

Z-wave Network Setup

⌘ Add to the Z-Wave network

1. Connect power line to motor and make sure the device is located within direct range of the Z-Wave controller.
2. Set the controller into the inclusion/add mode (refer to controller's operating manual).
3. After pressing the motor button for three times in 1.5 seconds, the motor indicator flashes quickly to enter the add status.
4. Curtain motor will be detected and included in the Z-Wave network.

[Note] During inclusion, a LED will fast flash red light until inclusion done. If motor not included in any controller, a LED will slow flash red light constantly.

[Note1] In order to working properly, user should operate curtain open and close once manually after power up. If lead tail was changed or re-assembling motor, motor tail reset should be done by configuration command parameter #7 manually.

⌘ Remove from the Z-Wave network

1. Connect power line to motor and make sure the device is located within direct range of the Z-Wave controller.
2. Set the controller into the exclusion/remove mode (refer to controller's operating manual).
3. After pressing the motor button for three times in 1.5 seconds, the motor indicator flashes quickly to enter the remove status.
4. Curtain motor will be detected and excluded from the Z-Wave network.

⌘ Device Reset Locally

1. Connect power line to motor
2. Press and hold the PB-button excess 10 second.
3. Curtain motor will be reset to factory default and clear Z-Wave included network state.

Associations

Association allows for direct communication between Z-Wave network devices. Main controller does not take part in such communication. Using this mechanism Motor could report motor status to another Z-Wave network device during it is running or stop, e.g. a Master Controller.

The product supports 1 association groups. Group #1 support associated 1 device only.

Association Group 1 is assigned to send motor lifeline status to associated devices, including send the multilevel report frame while window cover position, send device local reset frame while set factory default manually etc.

Secure vs no-Secure add to Z-Wave Network

The motor is a security enabled Z-wave Plus production, implements Z-Wave Application Security Layer in accordance with Z-wave protocol. This device must be used in conjunction with a Security Enabled Z-Wave Controller in order to fully implemented secure functions.

Even though the functionality and support command class are same when included as secure or no-secure node. But only following command class are supported no-secure access if it was added to Z-Wave network as secure:

- ⌚ COMMAND_CLASS_ZWAVEPLUS_INFO
- ⌚ COMMAND_CLASS_POWERLEVEL,

Advance Configuration

The motor supports configuration command use for other proprietary system and motor advance function setting, example revert direction, setting maximum/minimum position etc. Some of configuration commands only accept setting. Corresponding setting command are similar as control action and get command will always result in return zero.

Parameter No# Hex (Dec)	Data Size (Byte)	Acceptable Set / Get	Parameter Value	Action Description
0x04 (4)	1	Get Only	0x00 ... 0xN[1]	Motor go to position, 0xN=0x00~0x63
0x06 (6)	1	Set Only	Any	Motor revert direction
0x07 (7)		Set Only	Any	Clear motor lead tail endpoint setting
0x08 (8)		Set Only	Any	Enable manual pulling function
0x09 (9)		Set Only	Any	Disable manual pulling function

[Note 1]: All Setting Command parameter value is ignoring.

Z-wave Parameter

⌘ Root Device

- Device Role Type
 - ⌚ ZWAVEPLUS_INFO_REPORT_ROLE_TYPE_SLAVE_ALWAYS_ON
- Device Node Type
 - ⌚ ZWAVEPLUS_INFO_REPORT_NODE_TYPE_ZWAVEPLUS_NODE
- Device Command Class
 - ⌚ GENERIC_TYPE_SWITCH_MULTILEVEL(0x11)
 - ⌚ SPECIFIC_TYPE_CLASS_C_MOTOR_CONTROL(0x07)
- Support Command Class
 - ⌚ COMMAND_CLASS_ZWAVEPLUS_INFO
 - ⌚ COMMAND_CLASS_VERSION,
 - ⌚ COMMAND_CLASS_MANUFACTURER_SPECIFIC,
 - ⌚ COMMAND_CLASS_POWERLEVEL,
 - ⌚ COMMAND_CLASS_ASSOCIATION,
 - ⌚ COMMAND_CLASS_ASSOCIATION_GRP_INFO,
 - ⌚ COMMAND_CLASS_FIRMWARE_UPDATE_MD_V2,
 - ⌚ COMMAND_CLASS_DEVICE_RESET_LOCALLY
 - ⌚ COMMAND_CLASS_CONFIGURATION,
 - ⌚ COMMAND_CLASS_SWITCH_BINARY,
 - ⌚ COMMAND_CLASS_SWITCH_MULTILEVEL,
 - ⌚ COMMAND_CLASS_SECURITY

Warranty: motor five years, remote control one year, others two years

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