Curtain Actuator

Take M/W02.10.1 as example

目录
CONTENTS

01

请添加内容一
Please add content 1

02

请添加内容二
Please add content 2

03

请添加内容三
Please add content 3

04

请添加内容四
Please add content 4

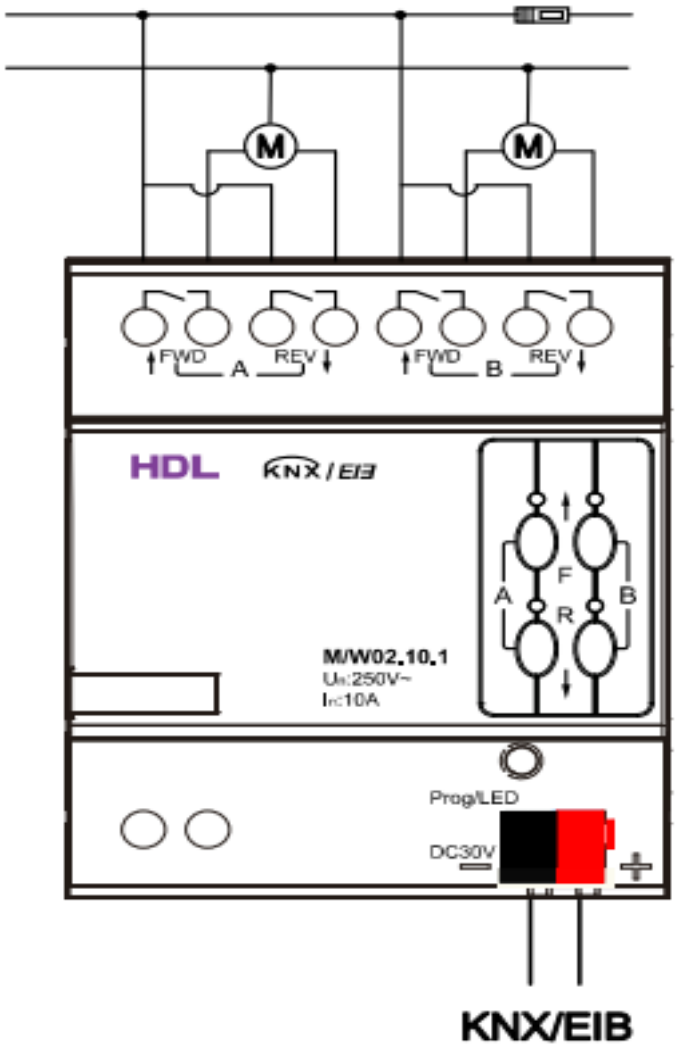
Part 01

Introduction

Introduction

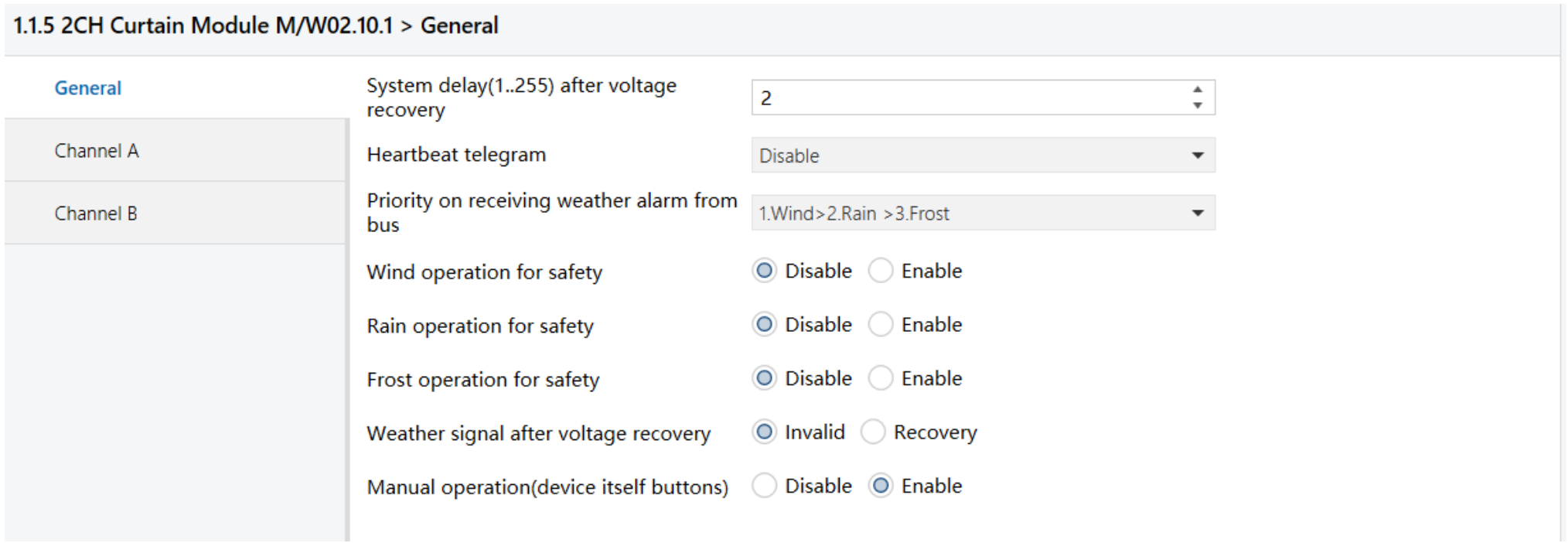
KNX 2CH 10A Curtain Actuator is in full compliance with Chinese and European safety standards and KNX protocol. This series of products have the characteristics of high power (10A), low consumption and high reliability.

Introduction-Wiring



The bypass button is for manual control, up/down and adjust position.
Keep long pressing it, the curtain will move to the fully open/close position. after reach the end, long press it again to adjust the curtain.(after installed it, use to adjust the curtain real position to sync the curtain module position)
shutter: short press, no action
blinds: short press, adjust louver

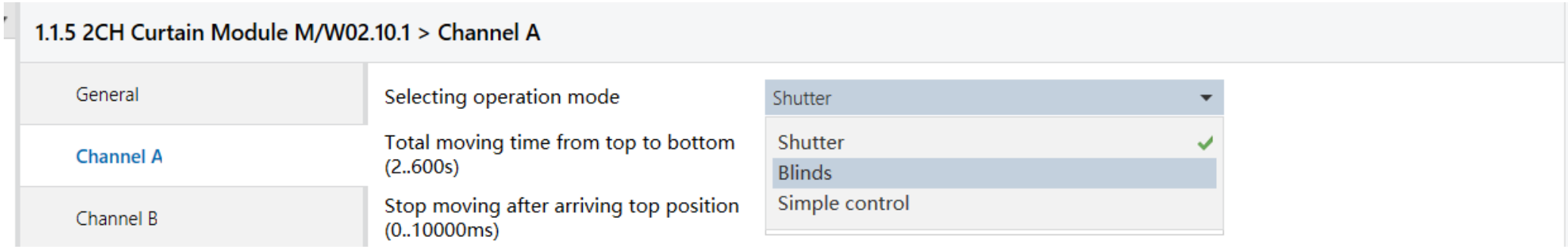
Introduction-Function



Work with the weather sensor which can detect the wind, rain, frost, then control the curtain moving to the safe position. Set the priority of these weather conditions, when the sensor detected more than one conditions, it will execute the action of the first priority condition.

You can enable/disable the weather conditions here.

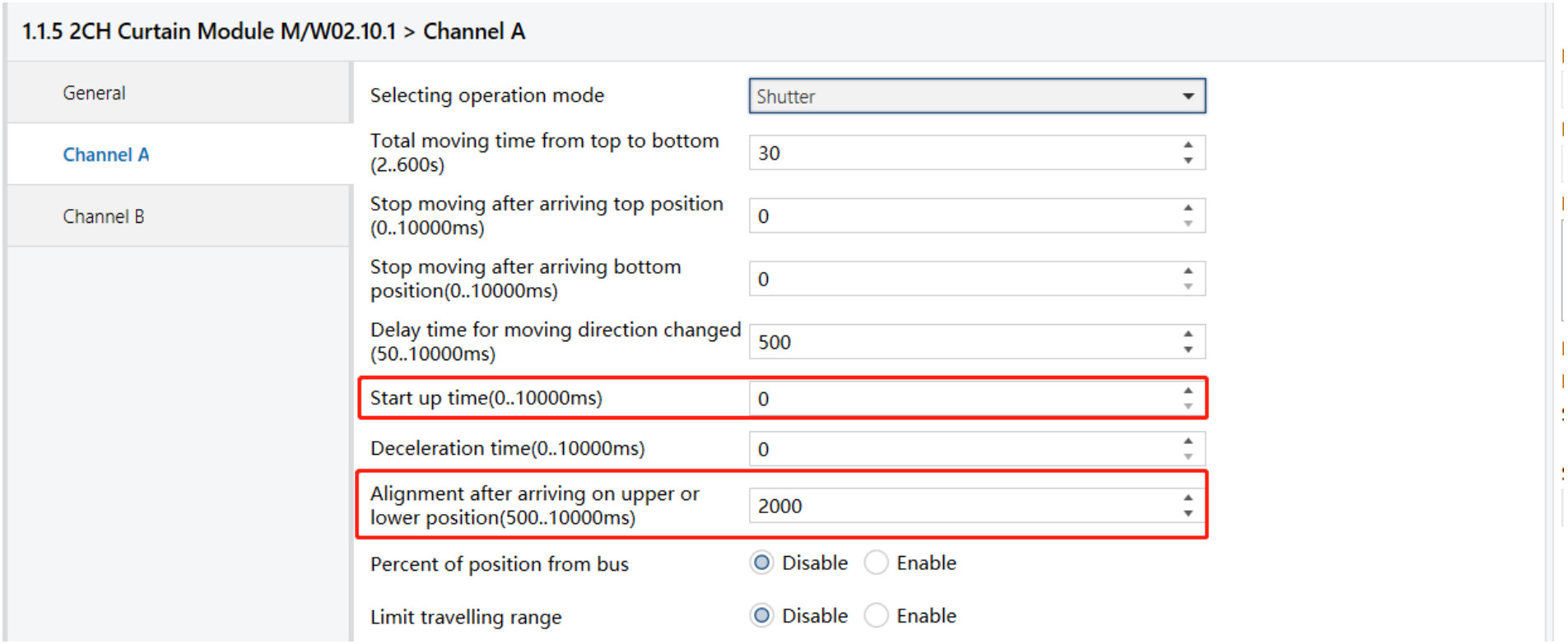
Introduction



operation mode:
shutter- fot normal curtain, open/close/stop control
blinds- for the curtain which has the louver, open/close/stop control and louver adjust

moving time:
user needs to test the curtain's moving time then set the time value here

Introduction



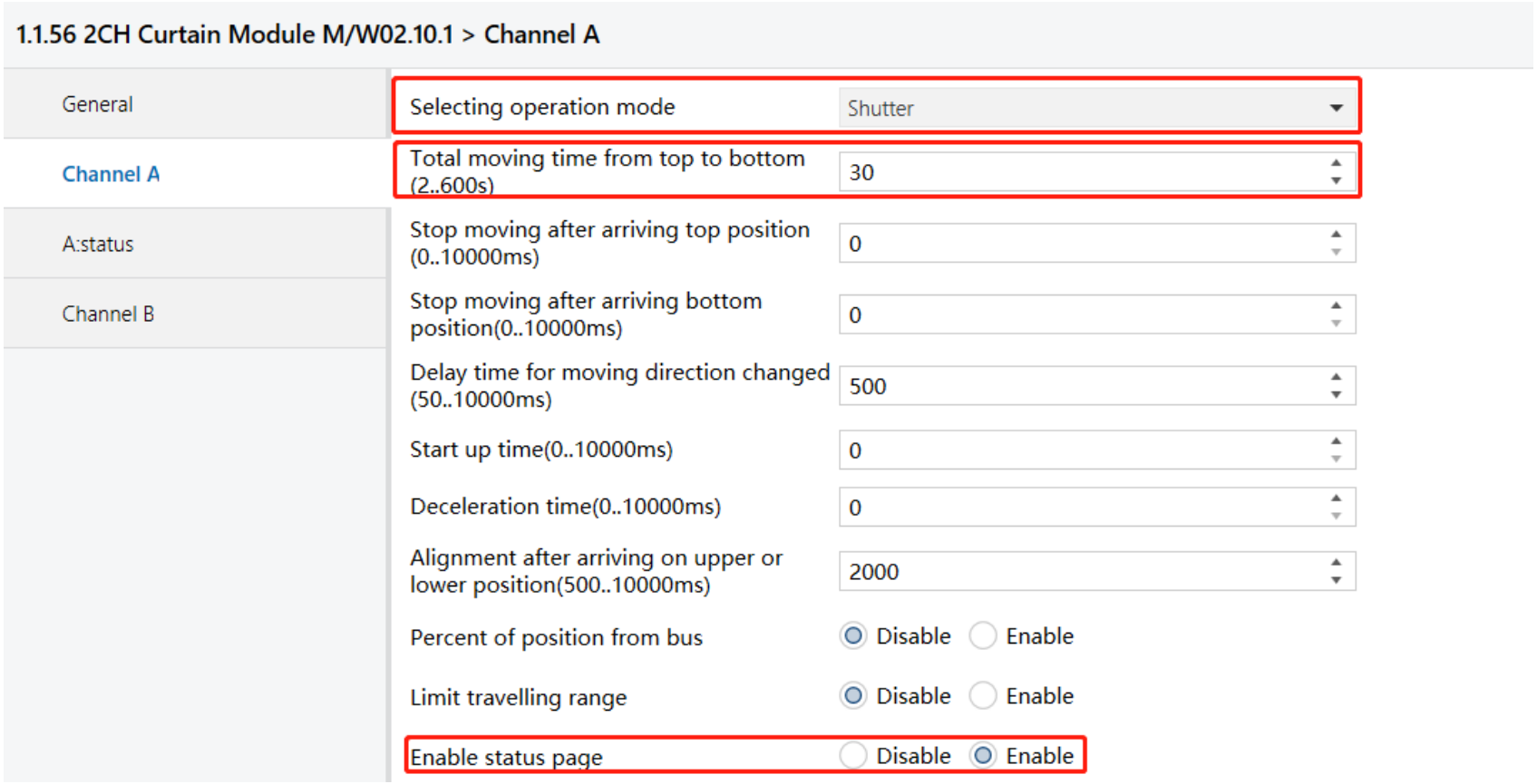
Start up time:
set the delay time for curtain to move when receives the up/down command

Alignment:
the alignment time to sync the curtain real status and the module status, after installed the curtain, will need to use this function, after that, normally no need to use it.

Commission-Shutter(Open, Close, Stop)

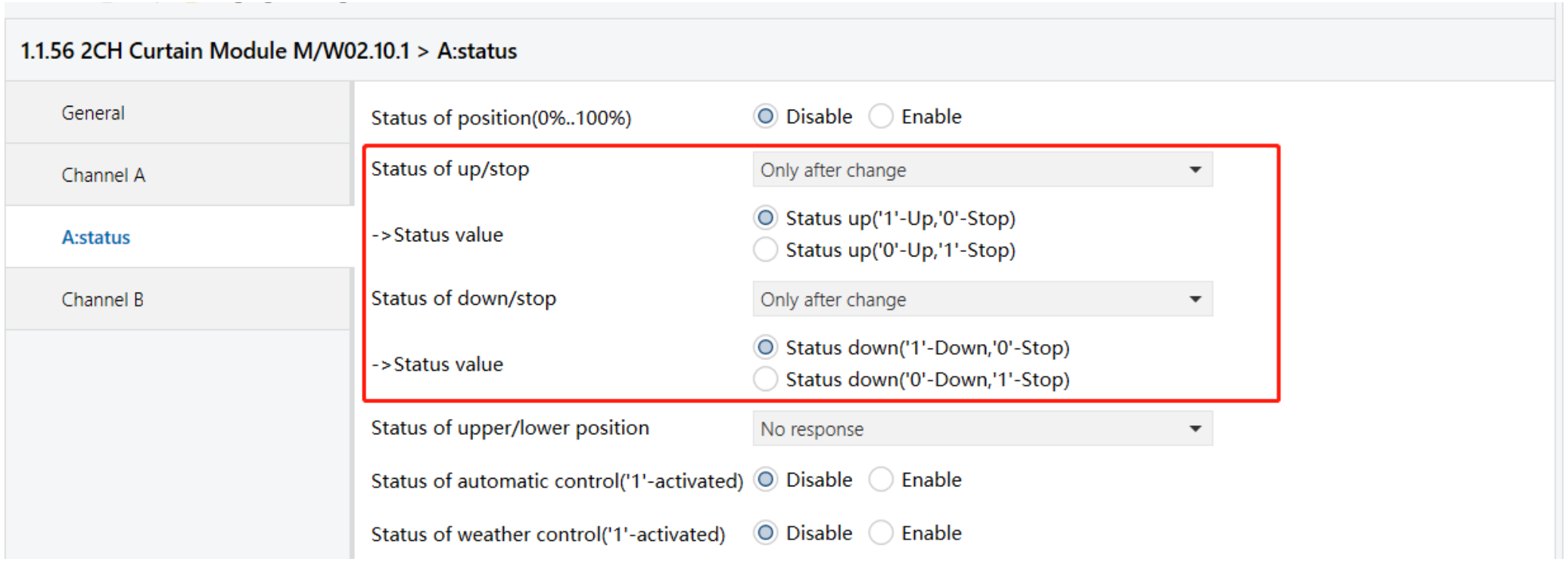
For Example, we want to use channel A to control living Room curtain. Here are the steps to do it.

1. Select shutter as operation mode.
2. Measure the curtain's moving time then set the time value
3.Enable status page.



Commission-Shutter(Open, Close, Stop)

4. Select Status feedback.



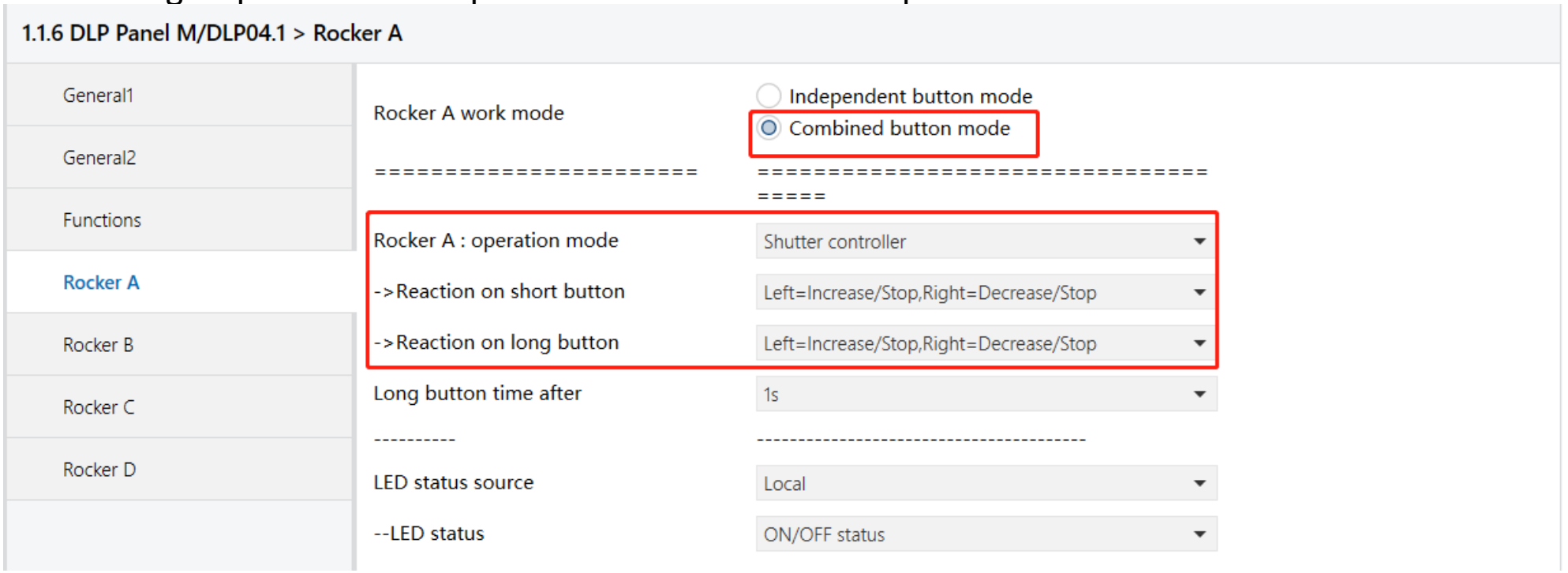
Commission-Shutter(Open, Close, Stop)

5. Create group address for move shutter up/down, Stop moving, Status 1bit(1-Up, 0-Stop),Status 1bit(1-Down, 0-Stop)

Number	Name	Object Function	Description	Group Addres	Length	C	R	W	T	U
10	Output A	Move shutter up/down	Livingroom Curtain Open&Close	1/0/30	1 bit	C	-	W	-	U
11	Output A	Stop moving	Livingroom Curtain Stop	1/0/31	1 bit	C	-	W	-	U
17	Output A	Status 1bit(1-Up,0-Stop)	Living room Up&Stop feedback	2/0/30	1 bit	C	R	-	T	-
18	Output A	Status 1bit(1-Down,0-Stop)	Living room Down&Stop feedback	2/0/31	1 bit	C	R	-	T	-

Commission-Shutter(Open, Close, Stop)

6.Link the group address with panel's rocker. Here we DLP panel's Rocker A.



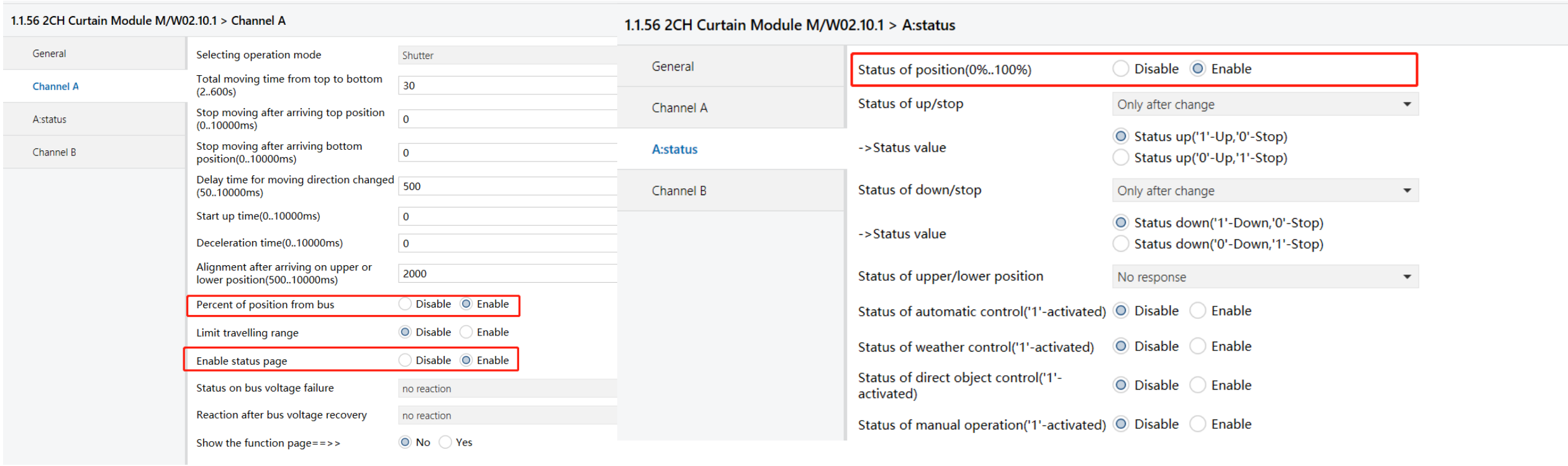
Number	Name	Object Function	Description	Group Addres	Length	C	R	W	T	U
40	Rocker A	Adjust/Stop for shutter	Livingroom Curtain Stop	1/0/31	1 bit	C	-	W	T	U
41	Rocker A	Move for shutter	Livingroom Curtain Open&Close	1/0/30	1 bit	C	-	W	T	U

7.Download data for both curtain module and DLP Panel.

Commission-Shutter(Percentage Control)

If we want to use DLP panel Rocker B (Press the left button to control the curtain opening by 50%, press the right button to control the curtain closing by 75%). Here are the steps:

1.Enable percentage control and percentage status feedback.

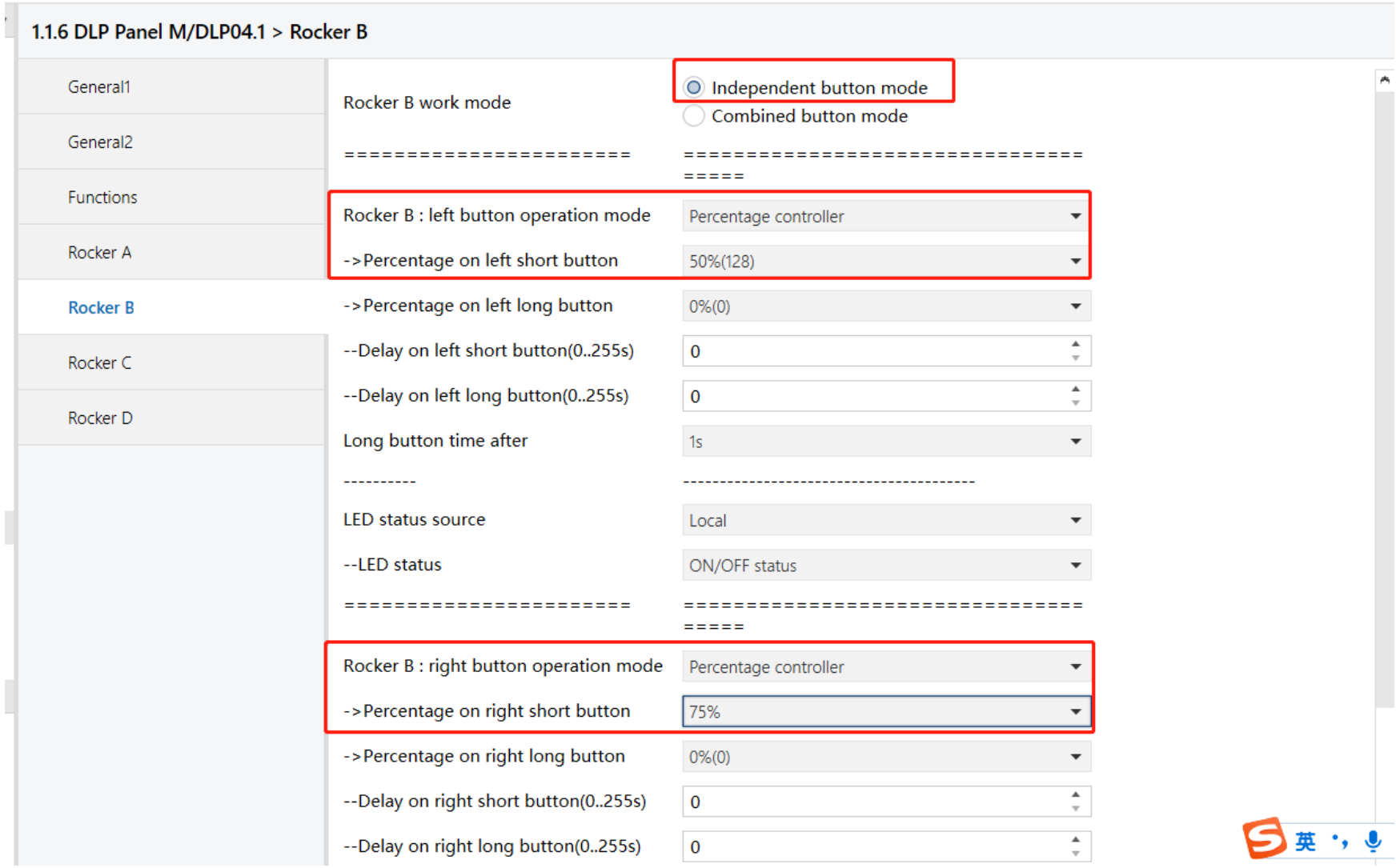


Commission-Shutter(Percentage Control)

2. Create Group address for percent of position(0%...100%) and Status of position(0%...100%).

Number	Name	Object Function	Description	Group Addres	Length	C	R	W	T	U
10	Output A	Move shutter up/down	Livingroom Curtain Open&Close	1/0/30	1 bit	C	-	W	-	U
11	Output A	Stop moving	Livingroom Curtain Stop	1/0/31	1 bit	C	-	W	-	U
12	Output A	Percent of position(0%..100%)	Living room Curtain % Control	1/0/34	1 byte	C	-	W	-	U
15	Output A	Status of position(0%..100%)	Living room Curtain % Feedback	2/0/34	1 byte	C	R	-	T	-
17	Output A	Status 1bit(1-Up,0-Stop)	Living room Up&Stop feedback	2/0/30	1 bit	C	R	-	T	-
18	Output A	Status 1bit(1-Down,0-Stop)	Living room Down&Stop feedback	2/0/31	1 bit	C	R	-	T	-
50	Output B	Move blinds up/down	Bedroom Roller Open&Close	1/0/32	1 bit	C	-	W	-	U
51	Output B	Adjust louvre/Stop moving	Bedroom Roller Stop	1/0/33	1 bit	C	-	W	-	U

3. Select Independent button mode and Percentage controller , and enter the percentage value accordingly.



4.Link the group address percent of position(0%...100%) with Rocker B.

Number	Name	Object Function	Description	Group Addres	Length	C	R	W	T	U
40	Rocker A	Adjust/Stop for shutter	Livingroom Curtain Stop	1/0/31	1 bit	C	-	W	T	U
41	Rocker A	Move for shutter	Livingroom Curtain Open&Close	1/0/30	1 bit	C	-	W	T	U
50	Rocker B left	Percentage	Living room Curtain % Control	1/0/34	1 byte	C	-	W	T	U
55	Rocker B right	Percentage	Living room Curtain % Control	1/0/34	1 byte	C	-	W	T	U
60	Rocker C short	Switching			1 bit	C	-	W	T	U
61	Rocker C long	Switching			1 bit	C	-	W	T	U
70	Rocker D short	Switching			1 bit	C	-	W	T	U
71	Rocker D long	Switching			1 bit	C	-	W	T	U

5.Download Data to the curtain controller and DLP panel.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