

# Curtain Actuator

Take M/W02.10.1 as example

The background of the top half of the page is a purple-tinted aerial view of a city with a river and bridges.

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# Part 01

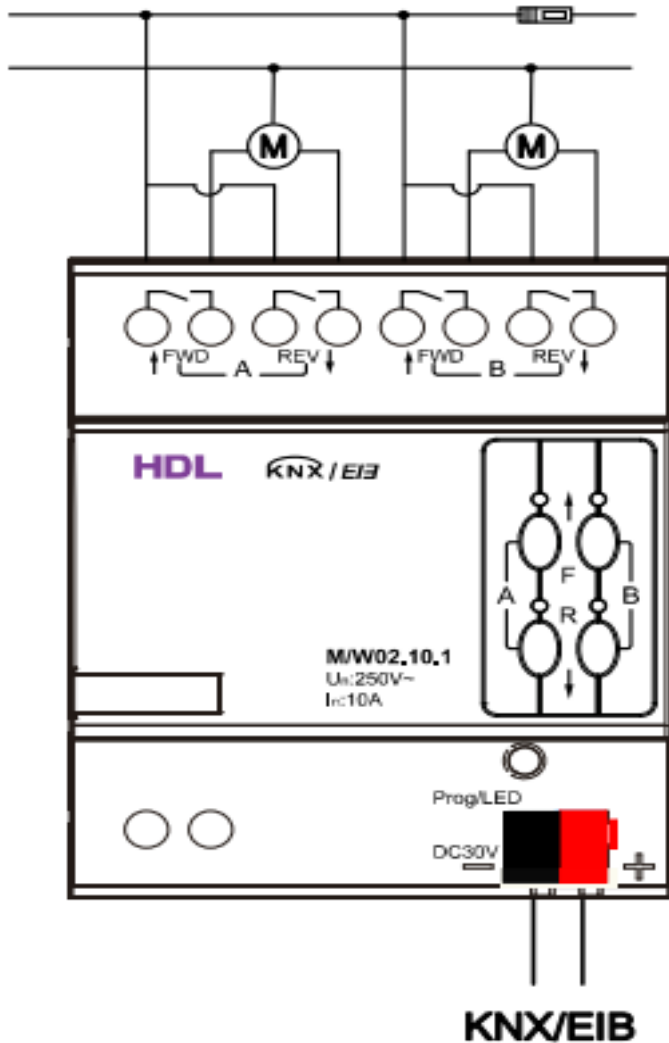
## Introduction

# Introduction

**HDL**®

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.





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

## 1.1.5 2CH Curtain Module M/W02.10.1 > General

General	System delay(1..255) after voltage recovery	2
Channel A	Heartbeat telegram	Disable
Channel B	Priority on receiving weather alarm from bus	1.Wind>2.Rain >3.Frost
	Wind operation for safety	<input checked="" type="radio"/> Disable <input type="radio"/> Enable
	Rain operation for safety	<input checked="" type="radio"/> Disable <input type="radio"/> Enable
	Frost operation for safety	<input checked="" type="radio"/> Disable <input type="radio"/> Enable
	Weather signal after voltage recovery	<input checked="" type="radio"/> Invalid <input type="radio"/> Recovery
	Manual operation(device itself buttons)	<input type="radio"/> Disable <input checked="" type="radio"/> Enable

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.

1.1.5 2CH Curtain Module M/W02.10.1 > Channel A

General	Selecting operation mode	Shutter
Channel A	Total moving time from top to bottom (2..600s)	Shutter ✓
Channel B	Stop moving after arriving top position (0..10000ms)	Blinds
		Simple control

operation mode:

shutter- for 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

## 1.1.5 2CH Curtain Module M/W02.10.1 > Channel A

General	Selecting operation mode	Shutter
Channel A	Total moving time from top to bottom (2..600s)	30
Channel B	Stop moving after arriving top position (0..10000ms)	0
	Stop moving after arriving bottom position(0..10000ms)	0
	Delay time for moving direction changed (50..10000ms)	500
	Start up time(0..10000ms)	0
	Deceleration time(0..10000ms)	0
	Alignment after arriving on upper or lower position(500..10000ms)	2000
	Percent of position from bus	<input checked="" type="radio"/> Disable <input type="radio"/> Enable
	Limit travelling range	<input checked="" type="radio"/> Disable <input type="radio"/> Enable

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.

## 1.1.56 2CH Curtain Module M/W02.10.1 > Channel A

General	Selecting operation mode	Shutter
Channel A	Total moving time from top to bottom (2..600s)	30
A:status	Stop moving after arriving top position (0..10000ms)	0
Channel B	Stop moving after arriving bottom position(0..10000ms)	0
	Delay time for moving direction changed (50..10000ms)	500
	Start up time(0..10000ms)	0
	Deceleration time(0..10000ms)	0
	Alignment after arriving on upper or lower position(500..10000ms)	2000
	Percent of position from bus	<input checked="" type="radio"/> Disable <input type="radio"/> Enable
	Limit travelling range	<input checked="" type="radio"/> Disable <input type="radio"/> Enable
	Enable status page	<input type="radio"/> Disable <input checked="" type="radio"/> Enable

## 4. Select Status feedback.

1.1.56 2CH Curtain Module M/W02.10.1 > A:status

General	Status of position(0%..100%)	<input checked="" type="radio"/> Disable <input type="radio"/> Enable
Channel A	Status of up/stop	Only after change ▼
<b>A:status</b>	-> Status value	<input checked="" type="radio"/> Status up('1'-Up,'0'-Stop) <input type="radio"/> Status up('0'-Up,'1'-Stop)
Channel B	Status of down/stop	Only after change ▼
	-> Status value	<input checked="" type="radio"/> Status down('1'-Down,'0'-Stop) <input type="radio"/> Status down('0'-Down,'1'-Stop)
	Status of upper/lower position	No response ▼
	Status of automatic control('1'-activated)	<input checked="" type="radio"/> Disable <input type="radio"/> Enable
	Status of weather control('1'-activated)	<input checked="" type="radio"/> Disable <input type="radio"/> Enable

# 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 Address	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.

1.1.6 DLP Panel M/DLP04.1 > Rocker A

General1	Rocker A work mode	<input type="radio"/> Independent button mode <input checked="" type="radio"/> Combined button mode
General2	=====	=====
Functions		=====
<b>Rocker A</b>	Rocker A : operation mode	Shutter controller
	-> Reaction on short button	Left=Increase/Stop,Right=Decrease/Stop
Rocker B	-> Reaction on long button	Left=Increase/Stop,Right=Decrease/Stop
Rocker C	Long button time after	1s
	-----	-----
Rocker D	LED status source	Local
	--LED status	ON/OFF status

	Number	Name	Object Function	Description	Group Address	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.

The image shows two side-by-side configuration screens for a '1.1.56 2CH Curtain Module M/W02.10.1'. The left screen is for 'Channel A' and the right is for 'A:status'.

**Channel A Configuration:**

- General: Selecting operation mode: Shutter
- Channel A: Total moving time from top to bottom (2..600s): 30
- A:status: Stop moving after arriving top position (0..10000ms): 0
- Channel B: Stop moving after arriving bottom position(0..10000ms): 0
- Delay time for moving direction changed (50..10000ms): 500
- Start up time(0..10000ms): 0
- Deceleration time(0..10000ms): 0
- Alignment after arriving on upper or lower position(500..10000ms): 2000
- Percent of position from bus:  Disable  Enable
- Limit travelling range:  Disable  Enable
- Enable status page:  Disable  Enable
- Status on bus voltage failure: no reaction
- Reaction after bus voltage recovery: no reaction
- Show the function page==>>:  No  Yes

**A:status Configuration:**

- General: Status of position(0%..100%):  Disable  Enable
- Channel A: Status of up/stop: Only after change
- A:status: ->Status value:  Status up('1'-Up,'0'-Stop)  Status up('0'-Up,'1'-Stop)
- Channel B: Status of down/stop: Only after change
- >Status value:  Status down('1'-Down,'0'-Stop)  Status down('0'-Down,'1'-Stop)
- Status of upper/lower position: No response
- Status of automatic control('1'-activated):  Disable  Enable
- Status of weather control('1'-activated):  Disable  Enable
- Status of direct object control('1'-activated):  Disable  Enable
- Status of manual operation('1'-activated):  Disable  Enable

# 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 Address	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.

1.1.6 DLP Panel M/DLP04.1 > Rocker B

General1	Rocker B work mode	<input checked="" type="radio"/> Independent button mode <input type="radio"/> Combined button mode
General2	=====	=====
Functions	Rocker B : left button operation mode	Percentage controller
Rocker A	->Percentage on left short button	50%(128)
<b>Rocker B</b>	->Percentage on left long button	0%(0)
Rocker C	--Delay on left short button(0..255s)	0
	--Delay on left long button(0..255s)	0
Rocker D	Long button time after	1s
	-----	-----
	LED status source	Local
	--LED status	ON/OFF status
	=====	=====
	Rocker B : right button operation mode	Percentage controller
	->Percentage on right short button	75%
	->Percentage on right long button	0%(0)
	--Delay on right short button(0..255s)	0
	--Delay on right long button(0..255s)	0

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

	Number	Name	Object Function	Description	Group Address	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.

The background of the image is a photograph of a modern building with a prominent glass facade, viewed from a low angle. The entire image is overlaid with a semi-transparent purple filter. The word "THANKS" is centered in the middle of the image in a large, white, bold, sans-serif font.

**THANKS**