

## Parameters

Parameters:	
Type	MWM70B.12 (Master)
	MWM70S.12 (Slave)
Rated voltage	AC220V 50Hz
Voltage range	AC220V±20% 50HZ
Working voltage	DC24V(Master)
	DC12V(Slave) from Master
Bus power Consumption	40mA/DC24V (Master)
	33mA/DC12V (Slave)
Slave interface	6P network port
Rated power	70W
Rated torque	1.0Nm
Rated speed	112rpm
Rail belt speed	16cm/s
Communication interface	HDL Buspro (Master)
Environmental Conditions:	
Working temperature	-5°C~45°C
Working Relative Humidity	Up to 90%
Storage Temperature	-20°C~+60°C
Storage Relative Humidity	Up to 93%
Approved:	
CE	
RoHS	
Production Information:	
Dimensions	284×70×50(mm)
Weight	1554g(master)
	1543g(slave)
Housing material	ABS, aluminum
Installation	Wall Hanging
Protection degree	IP41
Insulation degree	E

## Overview



**HDL-MWM70B.12** It contains master and slave. It is the curtain controller, the master can be started by HDL-BUS. It supports manual mode and it has over load protection and over heat protection.

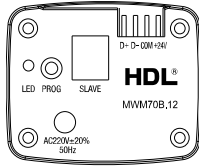
## Functions

- The distance testing of the curtain
- Manual mode: long drag, short drag, drag no action
- Percentage control
- Control by HDL Buspro
- Supports HDL Buspro online upgrading
- Supports easy programming
- Built-in new generation clutch, precise planetary reduce, noise level 40dB
- Suitable for all small to medium-scale curtain applications, linear and arched, one-and two-side opening

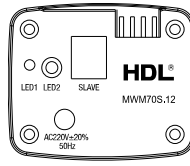
## HDL Buspro Definition for Cable

HDL-Buspro	HDL-Bus/KNX
DC24V	Red
COM	Black
DATA-	White
DATA+	Yellow

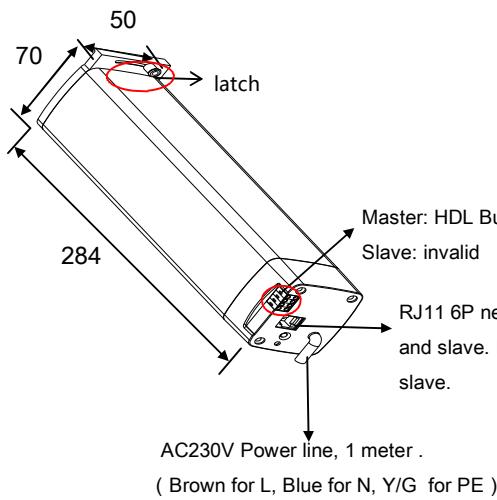
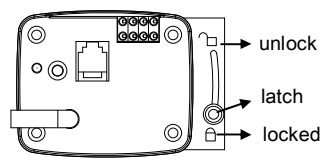
## Dimensions and Wiring



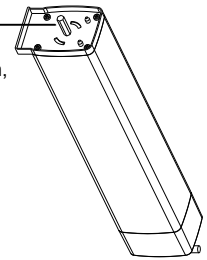
Master MWM70B.12



Slave MWM70S.12



Motor terminal: Pull the latch to unlock direction, and then insert the motor terminal into the C-Driver Unit. Then, put the latch into the locked hole.



## LED indicate

Function	LED status	Enter into the status	Exit the status
Working properly	LED turns ON, 1 time/2s	- -	- -
Modify the address of motor	LED turns on	Long press the button for 3s	Long press the button for 3s / no operation for 2minutes
Testing for installation	LED turns OFF, 1 time/2s	Long press the button for 5s	Long press the button for 5s / no operation for 20minutes
Easy programming	LED Turns OFF, 2 times/2s	Long press the button for 10s	Long press the button for 10s / no operation for 20minutes

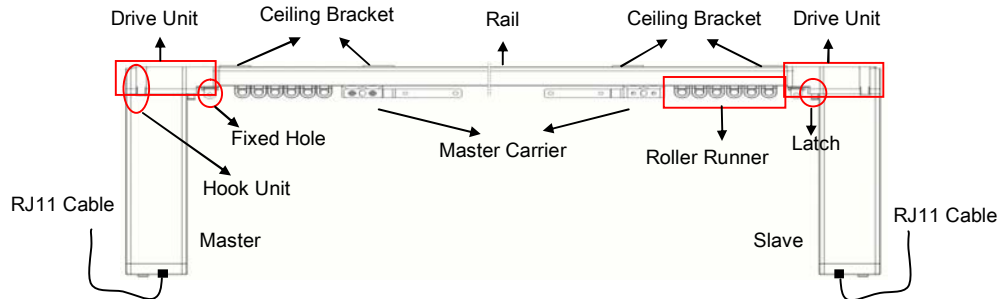
Notes: The above operations are carried out in normal work.

## Safety Attention

- Do not make wrong connection on Bus interface, it will damage the Bus interface of this module.
- Never let liquids get into the module, it will damage this device.
- Ensure good ventilation.
- Avoid contact with liquids and aggressive gases.
- When you install the motor to the drive unit, please check and make sure that the latch is pushed into locked hole, otherwise the motor will fall down to cause personal injury and product damage.
- When the motor is installed, please do not pull the curtain with too much force, and do not put any additional weight on the rail, do not climb the curtain and do not hang anything on the curtain.

## Step 1 Install rail and motor

### Install Effect Diagram



- The curtain hook mounting position:  
Hook Unit → Fixed hole → Roller Runner → Master Carrier and its handle.
- Master, Slave:  
The host is connected to the HDL-BUS port and AC220V, and it provides DC12V to the slave by the 6-core RJ11. The standard length of RJ11 wire is 1 meter.
- Ceiling Bracket's mounting distance :  
From both ends to the middle, it recommends to install a ceiling bracket and the distance is 600mm per (cannot exceed 600mm). In the middle rail, the distance between ceiling bracket can be slightly long, the recommended distance is 800mm. (Because the load in the ends is big, the mounting distance of ceiling bracket needs to be short, and the load in the middle rail is small, the distance of ceiling bracket can be slightly long)

## Step 2 Basic information

Remark: indicate some information.

Modify subnet ID: can read and modify the subnet ID and device ID of curtain, and the subnet ID of curtain should be same as the gateway.

The screenshot shows the 'Basic information' configuration window for a curtain device. The 'Choose Device' section shows the selected device as '1-50-HDL-MWM70B.12 (J)'. The 'Device configuration' section displays the model as 'HDL-MWM70B.12', the subnet ID as '1', and the device ID as '50'. There is a 'Remark' field with a 'Modify' button. The 'MAC Information' section shows the MAC address as 'FF.FF.FF.FF.FF.FF.FF'. At the bottom, there is a 'Modify subnet ID' section with input fields for 'Subnet ID' and 'DeviceID', and a 'save' button.

## Step 3 confirm motor running mode

**Motor running mode: Forward or backward.**

According to the windows, choose the motor running.

Auto off when power on: If choose, when the motor power off and then power on again, the motor will close automatically.

## Step 4 Testing for installation (very important)

Method one:

- ( 1 ) Keep pressing the button for 5S, the LED will flash 1 time/2S, the curtain enters into the testing mode.
- ( 2 ) The motor will measure moveable distance for the rail automatically (Open-close), when the motor stops, finish.
- ( 3 ) Short press the button, change the curtain status, if you press the button 1 time, the curtain will open, stop or close.
- ( 4 ) If it works properly, keep pressing the button for 5S, it will exit the testing mode.

Method two :

Click“Start”, the motor will measure moveable distance for the rail automatically, when it stops, finish.

## Step 5 Drag mode

No action

Long drag

Short drag

**Drag mode: long drag, short drag, no action.**

**Long drag:** Draw the curtain, the curtain will fully open or close automatically, the default distance is 20cm.

**Short drag:** Draw the curtain, the distance will be more than the safe distance and less than the short drag distance, the curtain will open or close automatically, the default safe distance is 5cm, in order to avoid misoperation or curtain flap, you can set the safe distance. The default distance is 20cm.

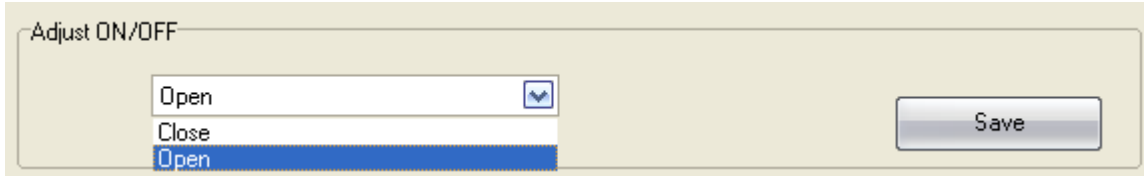
**No action:** Free mode, end-user can manually drag the curtain to any position freely.

**Note:** Long drag and short drag are depend on your habit. When pulley is moving, the length should not less than 5cm, and no more than the half of total length.

## Step 6 Test

Curtain switch: set the curtain status.( stop, open, close or percentage)

## Step 7 Test



After testing, when the curtain opens or closes, casement is maybe extruded or the opening position is wrong (the curtain has stopped even if it is not fully opening.) Now, you should adjust the opening and closing position again by “Adjust ON/OFF”.

Operation: Take the opening position as an example. At first, you should make sure the opening position, control the curtain to close to the opening position. And then, select “Open” (shown as above). If displays “command error”, means the opening position has confirmed. The closing position setting is same as the opening. General condition, the closing position needn't set.

## Step 8 DLP panel setting

The wireless curtain motor can work with DLP panel, there are two ways for control:

**Setting 1:** The button setting is shown as follows.(HDL-BUS Pro Tool Setup)

Operation: (Parameter 1 is “1(switch no.)”, parameter 2 is “on”, “off”, “stop” or “percentage”

Long press the button, open or close the curtain, if loosen the button, it will stop running . If fully open or close, it will stop running automatically.

Short press the button, it will be based on the percent to control the curtain

Key no.	Remark	Mode	Function no.	Subnet ID	Device ID	Type	Parameter 1	Parameter 2	Parameter 3
1		Single on/off	1	3	10	Curtain switch	1(Switch no.)	41 %[Switch Status]	N/A

**Setting 2:** The button setting is shown as follows.(HDL-BUS Pro Tool Setup)

Operation: short press the button, control the curtain open, close or stop.

Key no.	Remark	Mode	Function no.	Subnet ID	Device ID	Type	Parameter 1	Parameter 2	Parameter 3
1		Single on/off	1	3	10	Universal switch	1(Switch no.)	0n(Switch Status)	N/A
2		Single on/off							

## Step 9 Easy programming mode

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Keep pressing the button for 10S,the LED will flash 2 times/2s. The device will enter into easy programming mode. Now, the panel will display “programming” , then keep pressing the shift buttons (button 9 and 10) of DLP switch at the same time, the panel will display “external programming”.

In this mode, you can control the motor by PROG button. Keep pressing any panel button, it will cover the original target. Short press the button, it will add the motor control.

Long press the button of motor for 10s, it can exit this status. If it is no action, it will exit automatically after 20min without operation.