

User Manual

Leading Edge Dimmer Series







MD0206.432 MD0403.432

MD0602.432



www.hdlautomation.com



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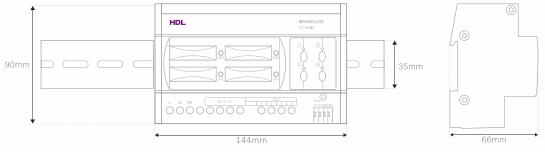
1. Overview

1.1 General Information

1.1.1 Description

Leading edge dimmer is suitable to dim resistive load (e.g., incandescent) and inductive load (e.g., inductive transformer). Before wiring the loads to the Dimmer, check (consult the load vendor) whether they are leading edge dimmable or not. (Some vendor may express it as TRIAC-dimmable, an equivalent expression).

1.1.2 Mounting



Standard 35mm Din Rail Installation
Inside Distribution Box(DB)

1.1.3 Serial Numbers







MD0206.432

- 2 Channels
- Max. 6A per channel
- Max.12A total

MD0403.432

- 4 Channels
- Max. 3A per channel
- Max.12A total

MD0602.432

- 6 Channels
- Max. 2A per channel
- Max.12A total



1.2 Function Qualities Description

Universal dimmers have a number of programmable features. There are listed below:

1.2.1 Common functionalities

- Short circuit and over heat protection
- Load test function for identifying and confirming circuits
- Bypass button for manual control available for each channel
- Scenes for saving present dim levels per Area, that can be recalled by any switch
- Sequences Availability to create up to 6 sequences and each sequence can has 12 steps
- Max level The maximum percentage a light can go (for energy saving, and light life-extension)
- Minimum and maximum dimming level the min and max level a channel dims to before it jumps to 0%, or the Max level
- Dimming curve exponents 1.0, 1.5, 2.0 and 3.0. These compensate for the curve of LEDs. The dimming accuracy is 12 steps

1.2.2 Individual functionalities

• Areas – for grouping channels so they can be changed with a single command.

MD0206.432	MD0403.432	MD0602.432
Up to 2 separated areas	Up to 4 separated areas	Up to 6 separated areas

• Fuse – fuse aR type protection replaceable in case of damage.

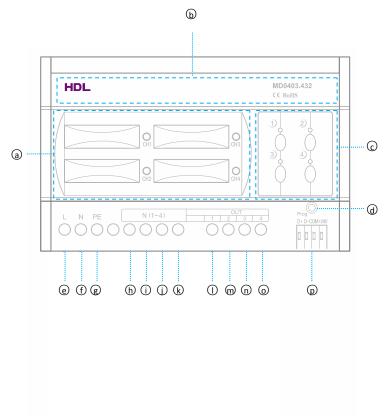
MD02	06.432			MD0403.432	MD0602.432
12A	fuse	of	each	8A fuse of each channel	4A fuse of each channel
chann	el for pr	otecti	ion.	for protection.	for protection.

1.2.3 Change fuse

The Dimmer has several fuse on the front cover, one for each channel, easy to replace. They are all aR type fuse, suitable to protect the electronic component TRIAC, and the rated current of the fuse is two times of the electronic component TRIAC, and the rated current of the rated current of the fuse is two times of the rated current of dimmer channel



1.3 Device Description



- a. Fuses and fuse blown indicators
- b. Heat sink
- c. Manual buttons
- d. Programming button
- e. Line
- f. Neutral
- g. Protecting Earth
- h. Neutral 1
- i. Neutral 2
- j. Neutral 3
- k. Neutral 4
- I. Channel 1
- m. Channel 2
- n. Channel 3
- o. Channel 4

1.4 Recommend Load Types

Loading edge dimmers is suitable to dim resistive load (e.g., incandescent) and inductive load (e.g., inductive transformer). Before wiring the loads to the Dimmer, check (consult the load vendor) whether they are leading edge dimmable or not. (Some vendor may express it as TRIAC-dimmable, and equivalent expression.)

The Dimmer has several fuses on the front cover, one for each channel, easy to replace. They are all aR type fuses, suitable to protect the electronic component TRIAC, and the rated current of the fuse is two times of the rated current of dimmer channel

2. Safety Instructions

Danger

Serious injuries, fire or property damage possible. Please read and follow safety



instructions fully.



Risk of fatal injury from electrical current

All work on the device should only be carried out by trained, fitted and skilled electricians. Before working on the device or before exchanging light bulbs, disconnect mains voltage and switch off circuit breakers.



Device can be damaged

Do not bypass or short-circuit the dimmer. Do not connect any LED, lights with integrated dimmers or compact fluorescent lamps that are not specifically suitable for dimming.



Product Manipulation

Only operate the device according to the specifications stated in the Technical data. Opening the housing of the device causes the immediate end of the warranty period.

3. Technical Data

	MD0206.432	MD0403.432	MD0602.432
Electric Parameter :			
Working power	DC15~30V		
Power consumption	28mA/DC24V		
Output channel	2CH/6A	4CH/3A	6CH/2A
Fuse	10A	8A	4A
TRIAC	25A TRIAC, Minimum	Load 40w	
Dimming curves	Linear, 1.5 exponent,	2.0 exponent, 3.0 expone	nt
Environmental Condition :			
Working temperature	0%~45%		
Working relative humidity	Up to 90%		
Storage temperature	-20%~+60%		
Storage relative humidity	Up to 93%		
Approved			



CE			
RoHS			
Production information :			
Dimensions	144×90×66 (mm)		
Weight	709 . 6(g)	716(g)	812 . 6(g)
Housing material	Nylon		
Installation	35mm Din Rail installat	ion	
Protection degree	IP20		

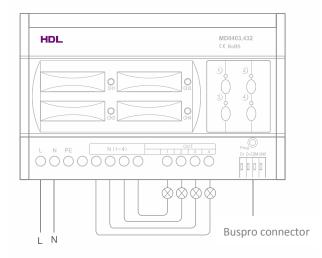
4. Installation

4.1 Check load type

Loading edge dimmers is suitable to dim resistive load (e.g., incandescent) and inductive load (e.g., inductive transformer). Before wiring the loads to the Dimmer, check (consult the load vendor) whether they are leading edge dimmable or not. (Some vendor may express it as TRIAC-dimmable, and equivalent expression.)

4.2 Wiring

Please follow the wiring showed below strictly, a non-standard wiring has been discussed in "DimmerFAQ008_ Buspro" below in this doc.





4.3 HDL BUS Pro Description

Connector Information

bus	spro
DC24V	Red
COM	Black
DATA-	White
DATA+	Yellow

4.4 Commissioning

Method One:

- a) open the HDL-BUS Pro Setup tool.
- b) Keep pressing the programming button for 3 seconds, it turns to red color.
- c) on the software, click the "Address management", and select the "Modify address (when device button is pressed)", it will show a window like this:

Subnet ID	Indicate initial address
Device ID	Modify initial address

d) click the "Indicate initial address", then it will show the ID of this device. If you want to modify the address, fill in the new address, and click the "Modify initial address". Click the "+Add" button, the device will be add in "ON-line devices" list.

Method Two:

- a) open the HDL-BUS Pro Setup tool.
- b) click the search button, it will show a new window, click search button, search the online devices. Click the "Add all" button, the devices which be searched will be add in "ON-line devices" list.



5. Software Configuration

5.1 Basic setting

📲 4ch 3A Leading Eo	lge Dimming module			
Device 2Area	3Channel Scene Sequence			
Select device				
Device	1-104-HDL-MD0403.432 ()			
Device configuration			-Model picture	
Model	HDL-MD0403.432			
Model				
Subnet ID	1 Device ID 104			
Device remark				
Remark		Save		
MAC address				
MAC	00. 00. 04. 0F. 13. 50. 05. 27			
D				
Power voltage setting	(
AC 220V	O AC 110v	Save		
Modify subnet ID and d	vice ID according to MAC		Picture upload	
Subnet ID	Device ID	Save	Upload X Delete Exit	
have a second				55

5.1.1 Change the ID of the device

Every HDL-BUS device has one Subnet ID and one Device ID, the Device ID should be unique in its subnet, and the Subnet ID should be kept consistent with the Gateway (typically the SB-DN-1IP or HDL-MBUS01IP.431).

5.1.2 Power voltage setting

Select "AC220V" if the applied mains is 220V~240VAC, select "AC110V" if the applied mains is 100V~120VAC.

Logic La Maria				
lect device				
Device	1-104-HDL-MD0403.432 ())	~	
vice configuration				
Model	HDL-MD0403.432			
Subnet ID	1	Device ID	104	
evice remark				
Remark				Save
IAC address				
MAC	00. 00. 04. 0F. 13. 50. 05.	27		
ower voltage setting	6			
AC 220V	(AC 110v		Save

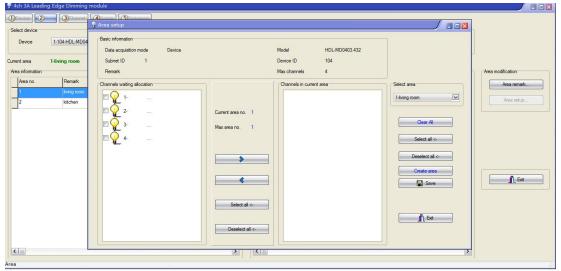


5.1.3 Remark

Generally set it like "for living room", or "in DB3" (distribution box 3) to indicate some info.

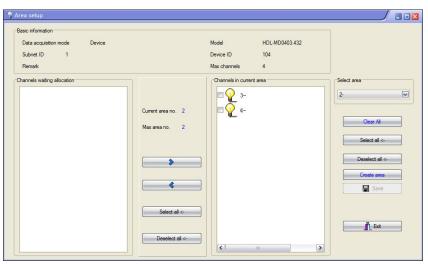
5.2 Area Setup

Below screen shot shows all 4 channels of the Dimmer are not assigned to any area, actually there is no area yet.



Suppose according to the wiring, channel1 to 2 are used to control 2 lights in living room, channel 3 to 4 are used to control 2 lights in the kitchen. The configuration steps would be like this:

- a) click "Create area", area 1 is created, we can find and select it in "Select area".
- b) select channel 1 to 2 and move them from left block to the right block, click "save".
- c) click "Create area", area 2 is created, we can find and select it in "Select area".
- d) select channel 3 to 4 and move them from left block to right block, click "save".



e) now all channels have been assigned to the areas, no channel is left in the left block. Exit this "Area setup" window, we can name the two areas, i.e., living room and



kitchen.

5.3 Channel parameter

Select device	Area 3Channel 4						Good to know:f selected,it will broadcast	all channels states	every 5s.		Area information Total area 2
irrent area	1-living room		Cu	rrent channel	1	-					
Area information				hannel inform	ation of curre	ent area					Channel modification
Area no.	Remark	Load totality		Load no.	Chn no.	Remark	Load type	Lower limit	Higher limit	Max level	
1	living room	2		1	1		Undefined	0	100	100	
2	kitch e n	2		2	2		Undefined	0	100	100	
											Load test
											View Temperature

5.3.1 Default setting

--Lower limit=0%, Higher limit=100%, Max level=100%

"DimmerFAQ011_ Buspro" below in this doc explains the Lower limit, Higher limit and Max level in detail.

5.3.2 "Load type"

The "Load type" is a remark, it has nothing to do with the control method or output behavior of Dimmer, doesn't matter if you leave it unselected. Default selection – Undefined.

sic informatio	n			Current area information
Data acquisit Subnet ID Remark	tion mode 1	Device	Model HDL-MD0403.432 Device ID 104	Current area 1-living room
1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -	e in current area	4		
Load no.	Channel no.	Remark	Load type	
1	1		Undefined	Save
2	2		Undefined 💌	
			Magnetic Low-Votage Lamp Electronic Low-Votage Lamp Rucrescent Lamp Hop-intensity Discharge(non-dim only) Lamp Hop-intensity Discharge(non-dim only) Lamp Relay C220 UED 230V UED 230V UED 12V Halogen 230V Halogen	<u>n</u> Ea



5.3.3 Dimming Profile

There are four dimming curves you can select, i.e., "Curve 1.0", "Curve 1.5", "Curve 2.0", "Curve 3.0". Different loads have different voltage-luminance curve, an ideal voltage-luminance curve is a linear one, means when end-user long press a button it dims p/down gradually and steadily, a dramatically non-linear load may have the undesired effect – at some segment, e.g., 0%~5%, it is insensitive, the luminance changes a little, at some segment, e.g., 50%~100%, it is sensitive, the luminance changes dramatically. To compensate this undesired effect, you can try the four selections of Dimmer, see which one suits the load best. The default selection is "Curve 1.0" and generally no need to change.

Data acquisition modeDevice	Model HDL-MD0403.432	
	MODEI 1101-MD0403.432	
Remark		
Subnet ID: 1	Device ID: 104	
Dimming Profile		
Channel n Remark	Dimming Profile	Modify
	Curve 1.0	synchronously
1		
2	Curve 1.0	Save
3	Curve 1.0	
3		Ē Exit
3	Curve 1.0	Bot

5.3.4 Load test

Before an end-user panel is configured, this window can be used to trigger the Dimmer/Relay, so as to check the wiring. As below screen shot show, if "Start test" is clicked, the channel 1 of device 1-104 will start to flash (the Interval is set as 2s). After confirmation, click "Stop test" and then "Turn off load".

Interval (2-60s)	2	Save				
ase input device addr	ss and channel no.					
Subnet ID	1 Device I	D 104	Channel no.	1 🔿	Read channel remark	Save address
	(If Channel no.is 255,the m	eaning is broadcast channe	ls)			
Channel remark					Modify channel remark	
Current status	The load test has been	n stopped.(Subnet ID:1	,Device ID:104,Cha	nnel no.1)		
				Start tes	t 🛈	Stop test (S)



5.3.5 View temperature

A large portion of the housing material is metal (Radiator), it is used for heat sink too, a temperature sensor is attached to it and used to monitor the temperature of the heat sink temperature. When it reaches to 78C, Dimmer will start to protect itself by lower the output level, the higher the temperature, the lower the output, if it reaches to 84C, the output will be totally limited to 0%, no output, till the temperature falls down below 78C, the Dimmer will recover the output.



5.4 Scene Setup

This Dimmer supports 12 scenes for each area. Scene 0 is reserved by the dimmer, cannot be edited, it is reserved for all off, the "Running time" is editable. "Running time" is explained in "DimmerFAQ003_Buspro" below in this doc.

- a) Select the "Area", here we select area 1 "living room", suppose area 1 has 4channels.
- b) Click "Scene setup", you can edit the "Remark", "Running time" and "Intensity".

	ding Edge Dimming module					
(1)Device (2)	Area 3Channel 3Sequence					
Select device			Select are	a		Scene restore
Device	1-104-HDL-MD0403.432 ()		Area	1-living room		Scene restore
Input scene no		Confirm	Current cha			
Scene informati				information of current scene		Area information
Scene no.	Remark	Running time(mm ss)	Chn no	Remark	Intensity	Total area 2
0	all off	0:0	1		100	Scene information
1		0.1	2		0	
2	ch2 on	0:1				Current scene no.
3	ch3 on	0:1				Start scene no.
4	ch4 on	0:1				Start scene no.
5	all on 20%	0:2				End scene no.
6	all on 40%	0:2				End scene no.
7	all on 60%	0:2				
8	all on 80%	0:2				Scene modification
9	all on 100%	0:2				Remark
-						Scene setup
						Material
						Wateriat
						Î , Exit
() III		>				

 c) Click "Scene restore", you have two options – "Scene before power off" and "Specified scene". It is the scene you want the Dimmer to recall when the Dimmer powered on. (see limitation in "DimmerFAQ009_Buspro" below in this doc)



Subnet ID	1	Device ID	104	
Model	HDL-MD0403.432	Remark		
Max area No.	2			
	odification to restore		•	
		ower on for eacl	h area	
cene information (of restore mode after po	ower on for eacl	h area	
cene information (of restore mode after po Restore mode after	ower on for eacl power on	h area	Scene No.
cene information (of restore mode after po Restore mode after Specified scene	ower on for each power on er off	h area	Scene No. 0

5.5 Sequence Sept

The Dimmer supports 6 sequences, and all these 6 sequences can only be created in one area, here in our case, just area1 has sequences, it is a limitation, suppose area1 has 4channels.

Device 1-104-HDL/MD0403432 0 Area 1-living room Current sequence: ent Sequence 1-flowEffect-nonstoo Mode Forward mode guence	Device 1-104-HE	DL-MD0403.432 ()				Select area	1-living room		Output sequence
Integrand Integ	Device	JL-IVID0403.432 ()				Alea	1-iiving room		
Sequend Remark Mode Times Step totali Status 1 flowEffect honstop Forward mod Unlimited 12 useable 2 Invalid Unlimited 12 useable 3 Invalid Unlimited 12 useable 4 Invalid Unlimited 12 useable 5 Invalid Unlimited 12 useable 6 Invalid Unlimited 12 useable 5 Invalid Unlimited 12 useable 6 Invalid Unlimited 12 useable 7 Sequence modificatio Sequence modificatio 8 Invalid Unlimited 12 useable 6 Invalid Unlimited 12 useable 7 Sequence modificatio Sequence modificatio 8 Inval	ent Sequence 1-flowEffe	ct-nonstop	Mode F	orward m	ode	Current step	1		Output
1 flowEffecthonstop Forward modUnlimited 5 useable 2 2-ch2 on 02.0 Sequence Sequence totality Sequence Modify step Sequence Modify step Sequence Modify step Sequence Modify step Modify step Sequence Modify step Sequence Sequence Modify step Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence <t< th=""><th></th><th></th><th></th><th></th><th></th><th>Step inform:</th><th></th><th></th><th>Area information</th></t<>						Step inform:			Area information
2 Invalid Unlimited 12 useable 3 Invalid Unlimited 12 useable 4 Invalid Unlimited 12 useable 5 Invalid Unlimited 12 useable 6 Invalid Unlimited 12 useable 5 Invalid Unlimited 12 useable 5 Orall off 020 5 Orall off 020 5 Orall off 020 5 Orall off 020 6 Invalid Unlimited 12 useable 5 Orall off 020 6 Invalid Unlimited 12 useable 5 Orall off 020 6 Invalid Unlimited 12 useable 1	Sequencemark	Mode	Times	Step tot	ali Status	Step no.	Scene no.	Step time (mm ss)	Total area
33 Invalid Unlimited 12 useable 4 4-ch4 on 0.2.0 5 5 0.2.0 5 5 0.2.0 5 5 5 5 0.2.0 5 <td>1 flowEffect-nonstop</td> <td>Forward m</td> <td>oc Unlimited</td> <td>5</td> <td>useable</td> <td>1</td> <td>1-ch1 on</td> <td>0:2.0</td> <td>Sequence</td>	1 flowEffect-nonstop	Forward m	oc Unlimited	5	useable	1	1-ch1 on	0:2.0	Sequence
3 Invalid Unlimited 12 useable 4 Invalid Unlimited 12 useable 5 Invalid Unlimited 12 useable 6 Invalid Unlimited 12 useable Sequence modification Remark. Sequence. Modify step	2	Invalid	Unlimited	12	useable	2	2-ch2 on	0:2.0	
5 Invalid Unlimited 12 useable 6 Invalid Unlimited 12 useable	3	Invalid	Unlimited	12	useable	3	3-ch3 on	0:2.0	Step totality
5 Invalid Unlimited 12 useable	4	Invalid	Unlimited	12	useable	4	4-ch4 on	0:2.0	
Sequence modificatio Remark Sequence Modify step	5	Invalid	Unlimited	12	useable	5	0-all off	0.2.0	
Remark Sequence Modify step	6	Invalid	Unlimited	12	useable			-ti-	
- Modify step									

If now in area we want to create a sequence which runs this way for ever: step1 (channel 1 on) -> step 2 (channel 2 on) -> step 3 (channel 3 on) -> step 4(channel4 on) -> step 5 (channel 1, 2, 3, 4 off) -> step1 -> step2 -> step 3....

- a) Select the "Area", here we select area 1 "living room".
- b) Click "Remark", we can name it "flowEffect-nonstop".
- c) Click "Sequence", we need 5 scenes, one for each step, and we want it to run forever once it is started (until end-user stop it manually), so we set it as below. There are four modes – Forward mode, Backward mode, Forward and Backward mode, Random mode. The sequence effect described above is a forward mode effect.



	ubnet ID Iemark	1			rice ID 104 entarea 1-liv		g room	
	dify seque Sequenc		Mode		Times	ŀ	Step totality	Modify mode synchronously
	1	flowEffect-nonstop	Forward mode		Unlimited	_	5	Modify running times
-	2		Invalid	•	Unlimited		12	synchronously
	3		Invalid		Unlimited	Ī	12	
	4		Random mode Forward and Backwo	vrd	Unlimited		12	Modify step number synchronously
	5		Backword mode	Ju	Unlimited		12	
	6		Forward mode	_	Unlimited		12	Save
								Exit

d) Click "Step", according to the effects, the 5 scenes we need for each step are scene1, scene2, scene3, scene4, scene0. "Step time" means how much time later the sequence will jump to another step (scene), typically we set it larger than the running time of the scene, here we set 1s larger than the running time of each scene.

Subnet ID	1		Device ID	104
Remark Current area	1-living room	6]	Current sequence	1-flowEffect-nonstop
odify step inform	nation			Modify step time
Step no.	Scene no.	Step time (mm ss)		synchronously
1	1	0.2.0		
2	2	0:2.0		Save
3	3	0:2.0		
4	4	0:2.0		
5	0	0:2.0		
				👖 Exit

6. FAQ

6.1 DimmerFAQ001_ Buspro

Q:

What is Leading Edge and what is Trailing Edge?

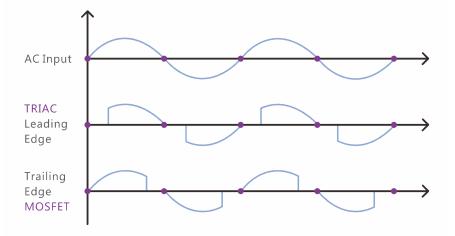
A:

They are two different dimming technologies. When not in dimming, a dimmer channel lets



the full sine curve of mains power pass, the load gets 100% powered. When dimming, Leading Edge technology blocks the leading part of the sine curve and Trailing Edge technology blocks the trailing part of the sine curve so that the load does not get 100% powered and so the load is dimmed. Leading Edge technology is suitable for resistive load and inductive load, while Trailing Edge technology is suitable for resistive load and capacitive load. A typical resistive load is incandescent lamp, motor and is generally inductive load and LED light is generally capacitive load.

75% Output



6.2 DimmerFAQ002_ Buspro

Q:

What is the selection "Load type" in HDL-BUS Pro Setup Tool? Would it affect the behavior of the dimmer?

A:

It would not affect the behavior of Dimmer, it is just like a remark, that is it.

6.3 DimmerFAQ003_ Buspro

Q:

We can set "running time" in the Scene setting, we set 3 seconds and turn it on by pressing a user panel, and expecting it to turn off automatically 3 seconds later, but what we saw was the load turned on slowly and reached the preset brightness 3 seconds later, it is "fade time".

A:



Yes, maybe "fade time" or "transition time" is easier to understand for some people. PS: You can find "running time" setting in user panel also if you select "Single channel lighting control" command.

6.4 DimmerFAQ004_ Buspro

Q:

I cannot have Sequence in more than one area?

A:

Yes, Sequence can only be created in one area. It is a limitation. You cannot create sequence in more than one area.

6.5 DimmerFAQ005_ Buspro

Q:

When I press a button of user panel, the indicator LEDs on the Dimmer module and user panel can be on/off, but the load just keeps on, I cannot turn it off.

A:

Probably the electronic component TRIAC or optical coupler is broken, if the module is under warranty, you can contact our sales to change it, or if you would like to change the electronic components by yourself, we can also ship you the components.

6.6 DimmerFAQ006_ Buspro

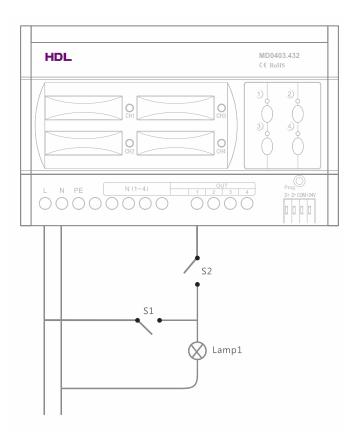
Q:

When a dimmer channel is broken, it is possible it cannot be turned on or cannot be turn off. Is there any way for the end user to turn on/off it temporarily and wait for me (Installer) to replace the module days later?

A:

Yes if you have pre-wired two manual switches to the dimmer channel as below diagram shows.





Turn on Lamp1: Turn on S1, doesn't matter the S2 is on or off. Turn off Lamp1: Turn off S1 and S2.

6.7 DimmerFAQ007_ Buspro

Q:

In a Sequence, I assigned a full bright scene to the last step, I expected when the Sequence is over or stopped by a user, it will stay bright, but what I got was full dark.

A:

When a Sequence is triggered, the dimmer module will first save the current status and then start to play the Sequence, when the Sequence is over or stopped by user, the dimmer will restore its previous status, so it is probably full dark before your trigger the Sequence.

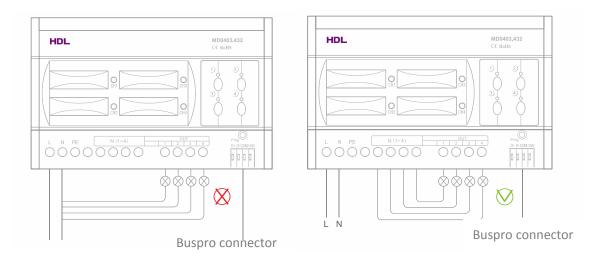
6.8 DimmerFAQ008_ Buspro

Q:

The HDL new dimmer produces more noise than I have expected, any solutions? A:

Please check the wiring, non-standard wiring can lead to unexpected more noise.





6.9 DimmerFAQ009_ Buspro

Q:

There is "Scene restore" setting in the Dimmer, which is great, but sometimes it does not work, any conditions needed to trigger the "scene restore"?

A:

There are two selections, "Scene before power off" and "Specific scene", if what you selected was "Specific scene", then it should be triggered unconditionally when powered on, if what you selected was "Scene before power off", then the channels' status has to have lasted for at least 20 seconds before the power failure, this is a condition for the Dimmer to guarantee it can restore the "Scene before power off". Additionally, if the Dimmer was playing Sequence, the Dimmer will play the Sequence when powered on.

6.10 DimmerFAQ010_ Buspro

Q:

Dimmer can turn on/off and dim the loads, and Relay can only turn on/off the loads, so why we need Relay, because Relay is cheaper?

A:

Relay may be cheaper but you need to confirm with our sales. Some loads are non-dimmable, in this case it is better to use Relay to control it, however it is OK if you use Dimmer to do ON/OFF control only, you just need to disable the dim option in user panel.

6.11 DimmerFAQ011_ Buspro

Q:

There are "Lower limit", "Higher limit" and "Max level" setting for each dimmer channel,



and the default values for them are Lower limit=0%, Higher limit=100%, Max level=100%, what are they and in what case I need to configure them?

A:

Yes, e.g., if you set Lower limit=30%, Higher limit=80% and Max level=90%, and then you use a user panel to command the dimmer channel to go to 40%, the Dimmer will find the value 40% is in the range 30% ~80%, and so the channel output will be 40%, but if you command the dimmer channel to go to 20%, the Dimmer will find the 20% is lower than the Lower limit (30%) and the channel output will be 0%, if you command 85%, the Dimmer will find 85% is higher than the Higher level(80%), and the channel output will be the Max level(90%).

The Lower limit is useful if you unfortunately have some lamps which produce unstable (trembling) light when dimming in low segment. You can bypass the unstable segment by setting a suitable Lower limit.

6.12 DimmerFAQ012_ Buspro

Q:

When I turned off a dimmer channel, to my surprise, I saw the load, a LED, keep flickering. A:

Leading Edge Dimmer have a little leak current when they are turned off, this leak current may lead to low wattage LED to flicker. If the load is 30W or higher, the leak current is not enough to power it and make it flicker. If the load wattage is less than 30W and you find there is flicker, then you can connect one MCR01.40 to the load in parallel to solve the flicker problem. HDL sells LED also, and claims all its LEDs do not have flicker problem.



7. NOTES

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