

HDP01 / HDP02 / HDP03 / HDP04



Applications

Suitable for controlling DALI LED drivers, either as a Plug n' Play installation into a standard wall switch back-box, or used as a group controller in a pre-programmed DALI system. With either 4 or 6 scenes selectable and a useful night light, these controllers can meet the demands of both commercial and domestic applications:

- Office / Commercial Lighting
- Classroom
- Meeting Room
- Home Office / Domestic use

HDP01 (Independent DALI)
HDP03 (System DALI)



Features

- DALI Plug n' Play (with built-in PSU (HDP01 / HDP02))
- Rotary Switch DALI Group control (HDP03 / HDP04)
- Permanent Memory Against Power Failure
- 5 Year, 50,000hr Warranty

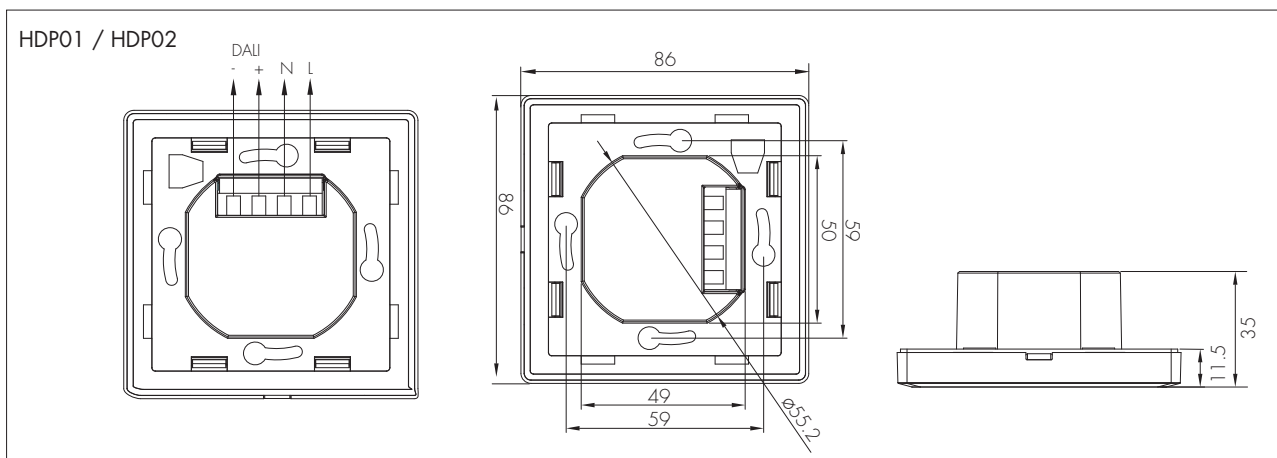
HDP02 (Independent DALI)
HDP04 (System DALI)

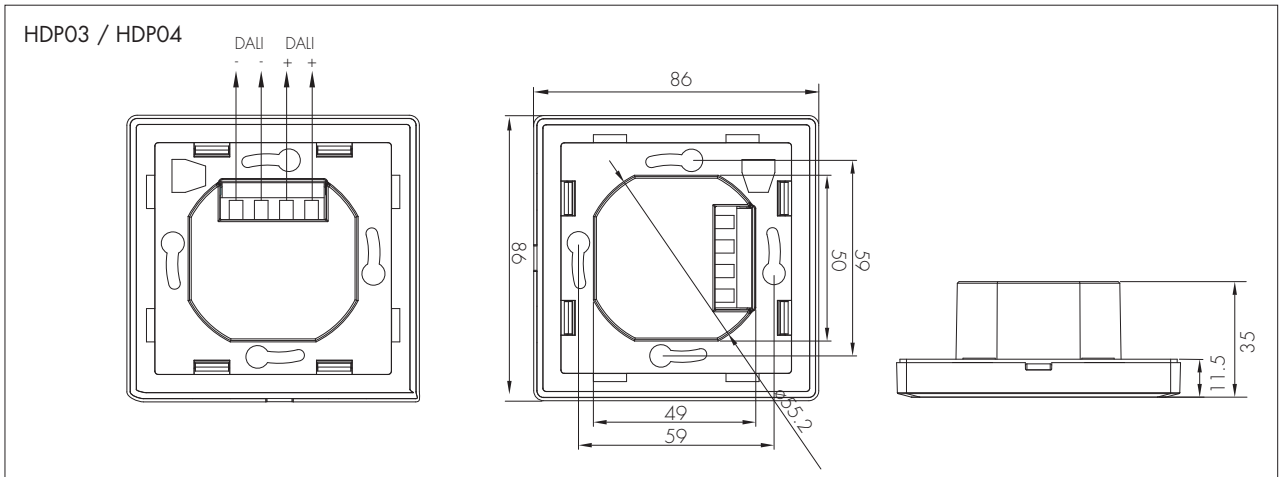


Technical Data

Model No.	HDP01	HDP02	HDP03	HDP04
Product Type	DALI panel (wall switch)	DALI panel (scene controller)	DALI panel (wall switch)	DALI panel (scene controller)
Operating Voltage	220-240VAC 50/60Hz	220-240VAC 50/60Hz	9.5~22.5VDC	9.5~22.5VDC
Load/Operating Current	Max. 80mA(30-40pcs DALI drivers)	Max. 80mA(30-40pcs DALI drivers)	6mA	6mA
Stand-by power	<0.5W	<0.5W	/	/
Operating Temperature	Ta: -20~+55 C	Ta: -20~+55 C	Ta: -20~+55 C	Ta: -20~+55 C
IP Rating	IP20	IP20	IP20	IP20
Warm-up Time	3s	3s	3s	3s
EMC Standard	EN55015, EN61547, EN61000-3-2, EN61000-3-3			
Safety Standard	EN60669-1; EN60669-2-1			
DALI Standard	IEC62386-101; IEC62386-103; IEC62386-303			
Certifications	Semko, CB, RCM, CE, EMC			

Dimensions and Terminals

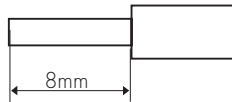




Wire Preparation



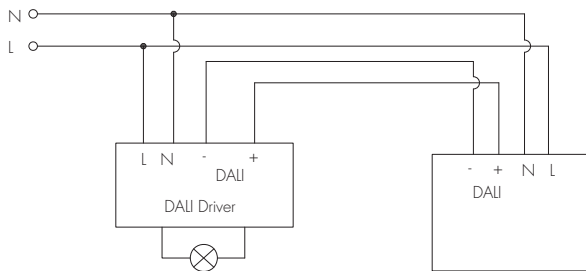
0.75 - 4mm²



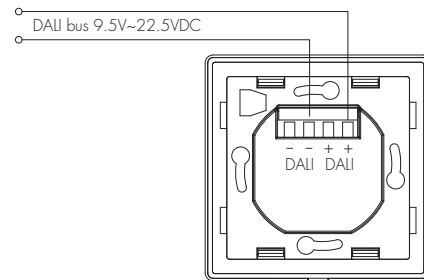
Solid or Stranded wire type 0.75 - 4mm².

Wiring Diagrams

HDP01 / HDP02



HDP03 / HDP04



Group Control (for HDP03 / HDP04 only)

The DALI panel can control the lights grouped in a DALI system via the rotary switch. Group "0" is configured and reserved for DALI broadcast.

The rotary switch channel is corresponding to the groups listed below:






Switch channel	DALI group	Switch channel	DALI group
0	broadcast	8	group 7
1	group 0	9	group 8
2	group 1	A	group 9
3	group 2	B	group 10
4	group 3	C	group 11
5	group 4	D	group 12
6	group 5	E	group 13
7	group 6	F	group 14

Note: Point the arrow to choose group by using a screwdriver.


Functions and Operations (HDP01 / HDP03)

ON/OFF Function (for HDP01 only)

Short press button  to turn the light ON or OFF. The last scene selected (light level) is saved.

Note: The light can also be turned on by press and hold on button  or short press on any scene button    .

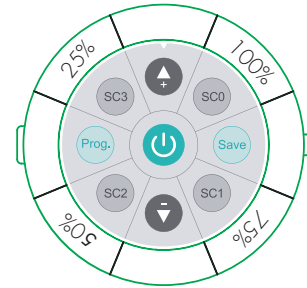
OFF Function (for HDP03 only)

Short press button  to turn the light OFF. The last scene selected (light level) is saved.





Note: The light can also be turned on by short press on any scene button    .

Nightlight Function



Nightlight: long press (>2s) on button , the nightlight goes to permanent on mode; long press again to turn it off. Nightlight brightness level can be adjusted by long press on button  for more than 5s.



Scene Selection

Press button     to select light scenes. Default light brightness levels are:

SC0: 100% SC1: 75% SC2: 50% SC3: 25%

The brightness of the scene selected can be quickly adjusted by long press (>1s) on button  and . This one-time adjustment will not be saved in the scene.

Scene Programming


The light brightness level for each scene can also be manually programmed:

Step 1: press button , the LED indicator flashes slowly for indication.


Step 2: select one of the scene button     to start adjustment.



Step 3: press button  or  to set the desired brightness level.

Step 4: press button  to save the adjustment. The LED indicator flashes rapidly.

To exit programming mode, short press button , or simply leave it alone. The device will exit programming mode automatically after 10 seconds.

Light Level Reset to Default








1. Single scene reset to default light level: short press on button , then long press (>5s) on the scene button which needs to be reset. The LED indicator flashes rapidly for successful operation.

2. All scenes reset to default light levels: short press on button , then long press (>5s) on button , all light levels (including nightlight) go back to default value. The LED indicator flashes rapidly for successful operation.

Functions and Operations for HDP02 / HDP04







ON/OFF Function (for HDP02 only)

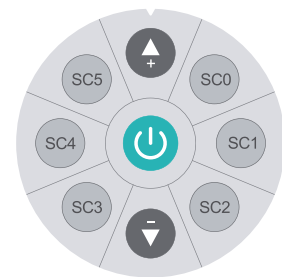
Short press button  to turn the light ON or OFF. The last scene selected (light level) is saved.

Note: The light can also be turned on by long press on button  or short press on any scene button      .



OFF Function (for HDP04 only)

OFF: short press button  to turn the light OFF. The last scene selected (light level) is saved.

Note: The light can also be turned on by a short press on any scene button      .









Nightlight Function

Long press (>2s) on button , the nightlight goes to permanent on mode; long press again to turn it off. Nightlight brightness level can be adjusted by long press on button  for more than 5s.

Default setting can be restored by a long press (2s) on button .



Scene Selection

Press button       to select light scenes. Please note that the light levels of the DALI drivers need to be pre-programmed via any DALI master programming tool.

The HDP outer ring details a removable bezel in which the scene can be marked according to the programmed settings

Examples:

- * Office: Energise /Relax & Ease /Coffee /Lunch-break /Snooze /Nightshift
- * Meeting Room: Meeting /Presentation /Relax /Display /Whiteboard /Stage
- * Home: Breakfast /TV /Dinner /Cosy /Housework /Reading

The brightness of the scene selected can be quickly adjusted by long press (>1s) on button  and . This one-time adjustment will not be saved in the scene.

Loading and In-rush Current

Model	HDP01	HDP02
In-rush Current (Imax.)	3.1 A	3.1 A
Pulse Time	407 µs	407 µs

Number of Drivers Based upon 16A Circuit Breaker

Cct Breaker Type	HDP01	HDP02
Type B	100	100

Conversion table for max. quantities of drivers on other types of Miniature Circuit Breaker

MCB Type	Rating	Relative number of drivers
B	16A	100% (see table above)
B	10A	63%
B	13A	81%
B	20A	125%
B	25A	156%

MCB Type	Rating	Relative number of drivers
C	10A	104%
C	13A	135%
C	16A	170%
C	20A	208%
C	25A	260%

* Environmental factors (such as temperature) will also influence the maximum number of the drivers. Please refer to the MCB manufactures datasheet for loading and derating factors.