

DRD LIGHTING CONTROLLER USER MANUAL

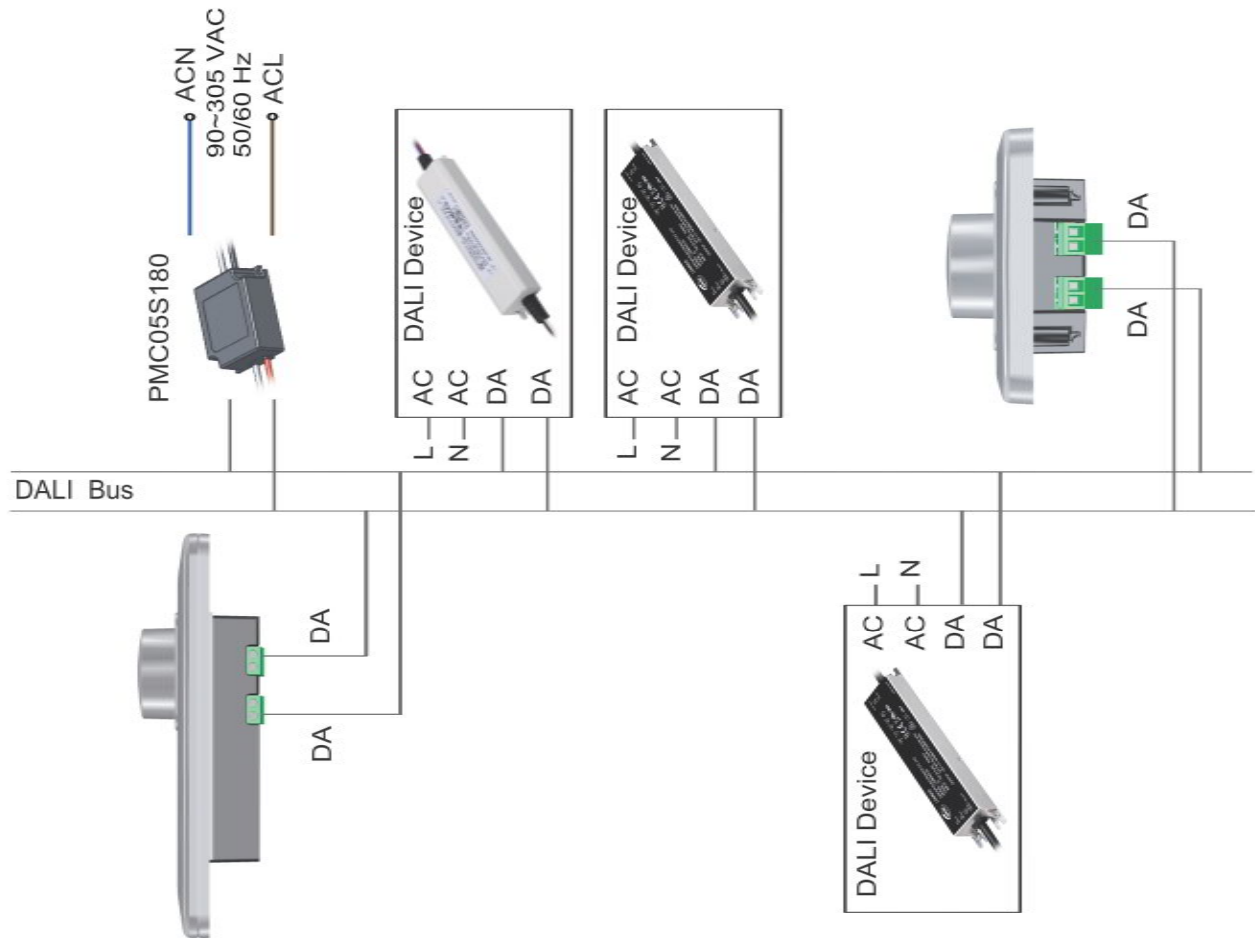


Contents

• Glossary.....	2
• 3D Exploded View.....	3
• Mechanical Information.....	4
• Control Panel Layout and Functions.....	6
• Powering the DRD Controller.....	7
• Installation.....	8
• Lighting Control.....	9
• DRD Group Control Capability.....	10
• Minimum Brightness Setting.....	11
• Reset DRD Status.....	12

• Glossary

DALI Bus



DALI requires a single pair of wires to form the bus for communication to all devices on a single DALI network.

GROUP:

A DALI system contains up to 16 Groups. A Group is defined as containing one or more lighting devices. Only lighting devices programmed into the specific group are controllable.

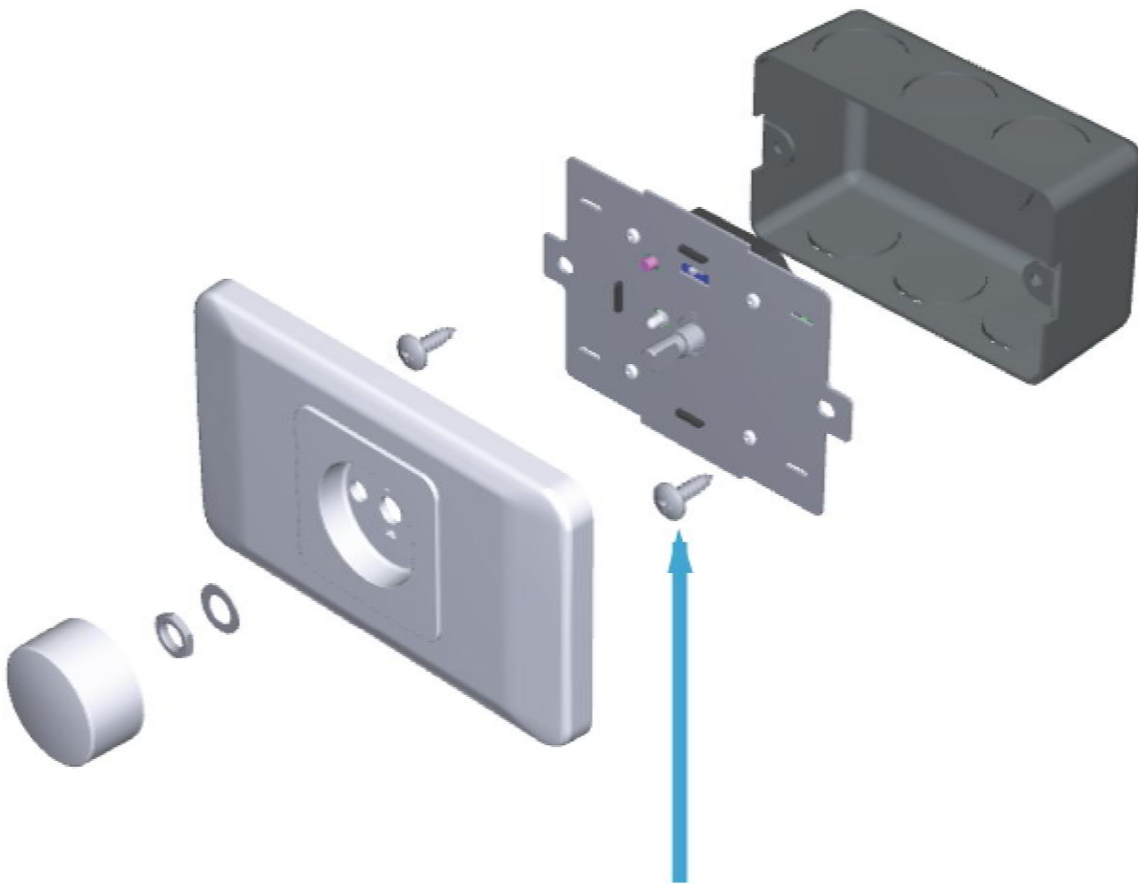
SCENE:

Two or more groups, each configured to a specific brightness.

BUS:

A pair of wires through which information is transmitted between the controller and the lighting devices.

• Precautions



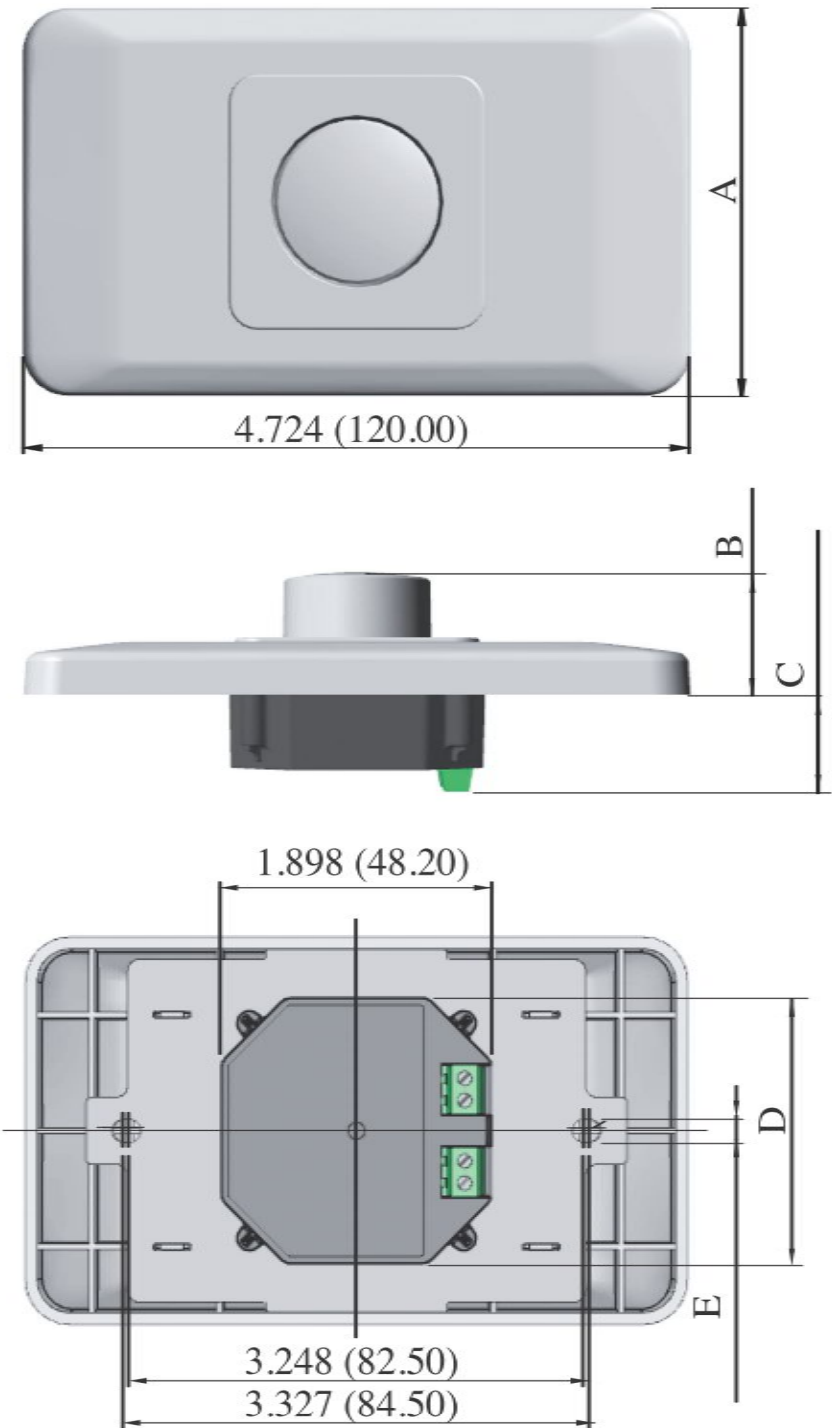
*Screw type: JIS M4 Self Tapping Screw (Length 12mm ref)
ANSI #6 Self Tapping Screw (Length 1/2" ref)

1. Do not install the unit in a potentially explosive or flammable atmosphere.
2. Indoor or dry location use only. Do not expose this apparatus to rain, moisture, dripping or splashing.
3. This lighting controller and all electrically powered devices should only be serviced or repaired by qualified technicians.
4. This manual is for reference only and subject to change without notice.

• **Mechanical Information**

Tolerance Inches: x.xxx=±0.02
 Millimeters: x.xx=±0.5

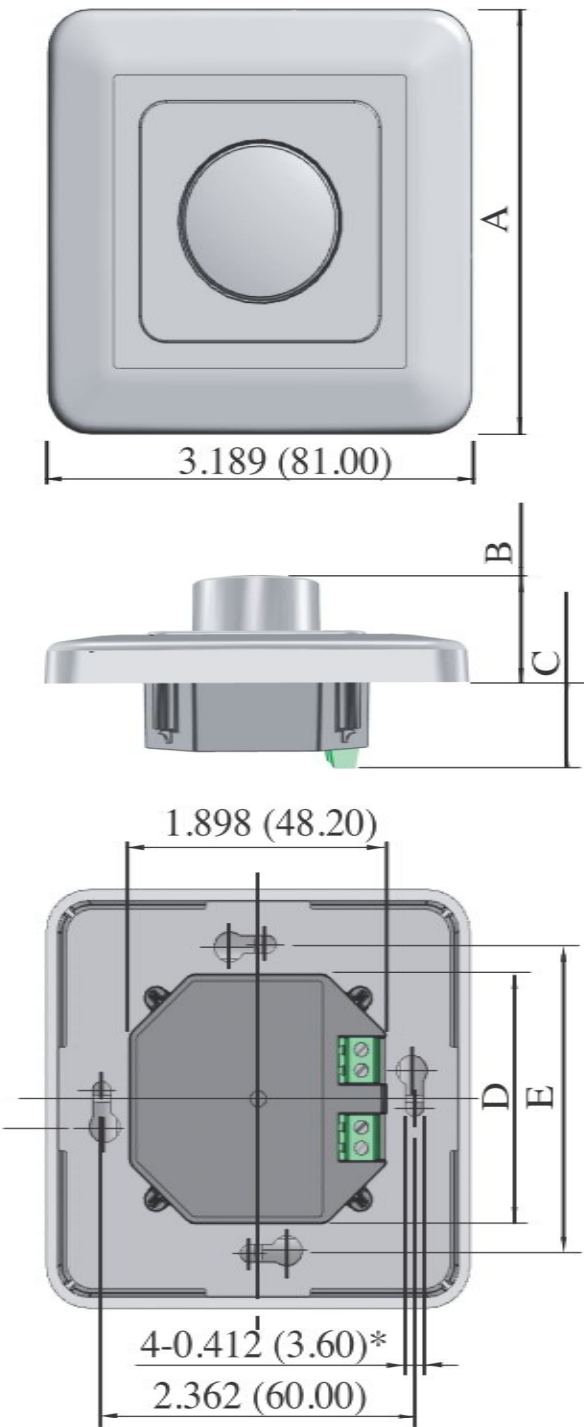
DRD-A:



TAG	SIZE	TAG	SIZE
A	2.756 (70.00)	D	1.858 (47.20)
B	0.933 (23.70)	E	2-0.169 (4.30)*
C	0.720 (18.30)		

*Screw type:JIS M4 Self Tapping Screw (Length 12mm ref)
 ANSI #6 Self Tapping Screw (Length 1/2" ref)

DRD-E:

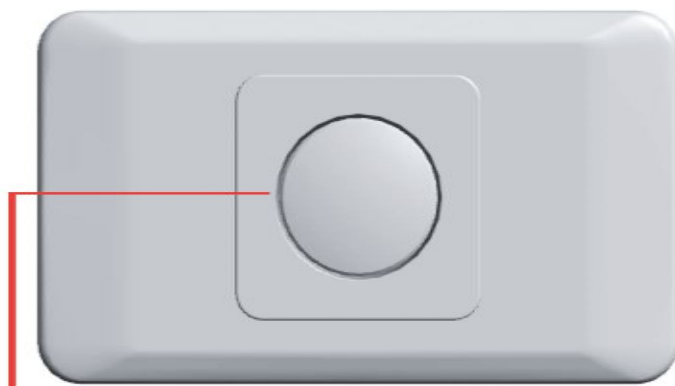


TAG	SIZE	TAG	SIZE
A	3.189 (81.00)	D	1.858 (47.20)
B	0.933 (23.70)	E	2.362 (60.00)
C	0.720 (18.30)		

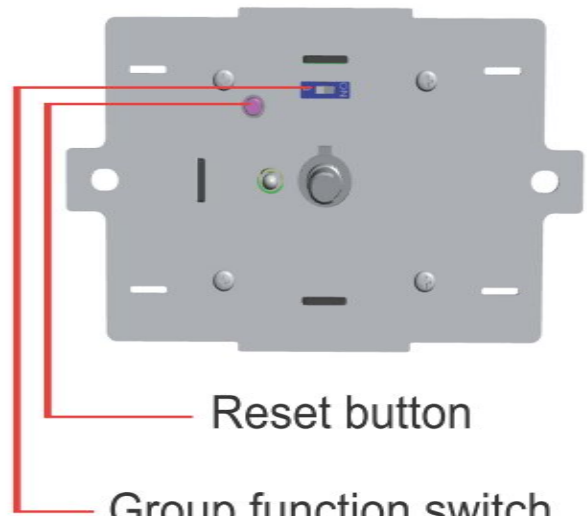
*Screw type: JIS M3.5 Self Tapping Screw (Length 12mm ref)
ANSI #6 Self Tapping Screw (Length 1/2" ref)

• Control Panel Layout and Functions

Front:

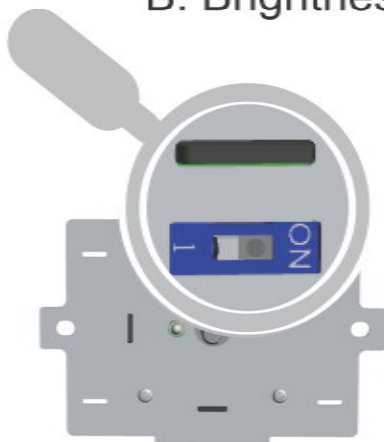


Control knob:
A. ON/OFF
B. Brightness Adjustment



Reset button

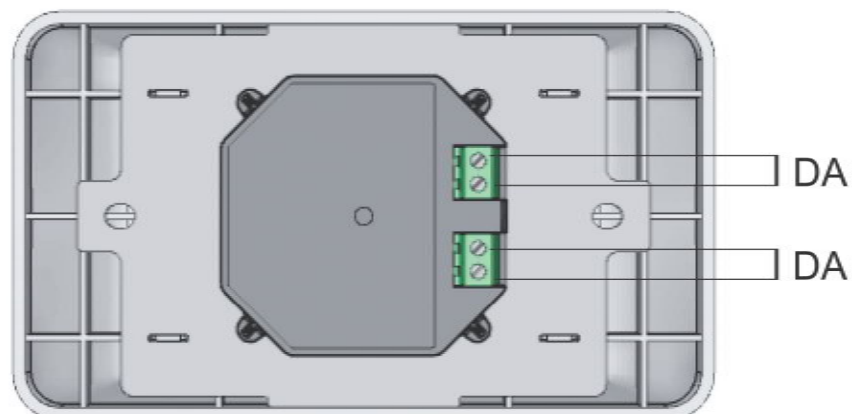
Group function switch



Switch to 1: Disable grouping function / group fixed

Switch to ON: Enable grouping function / can be grouping via DMD-A / DMD-E

Back:



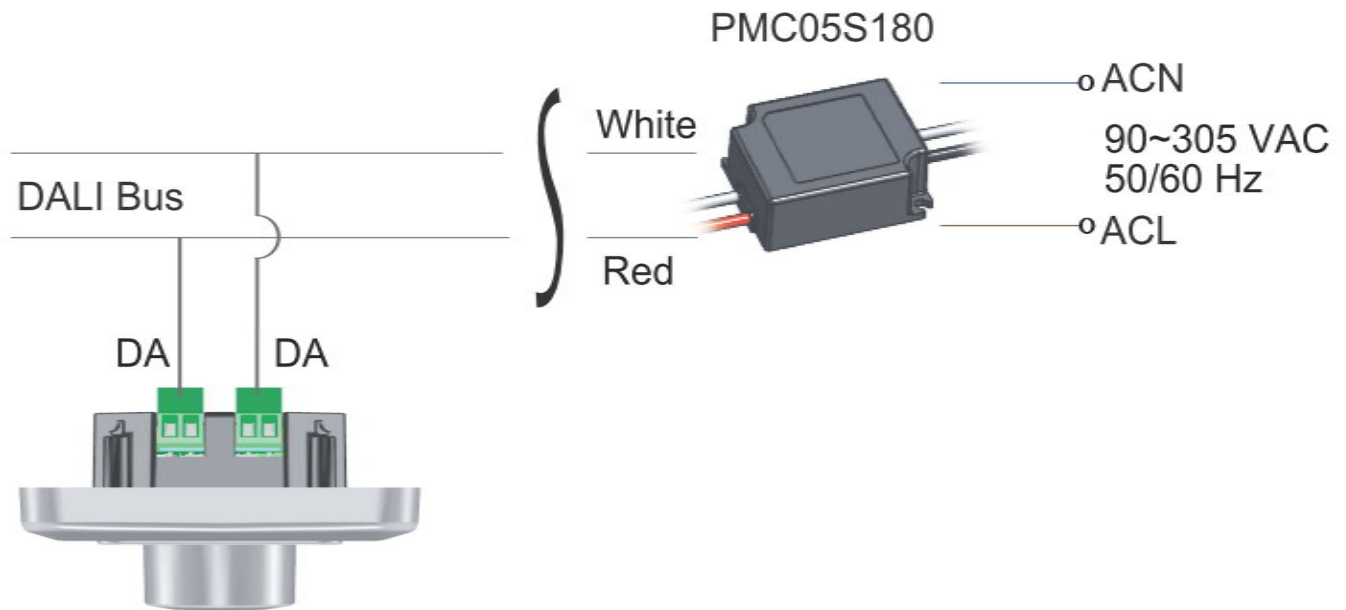
DA

DA

Connection	Description
DA	DALI input
DA	DALI input

• Powering the DRD Controller

A. Power by any DALI BUS



B. Power by DALI Power and extending DALI BUS

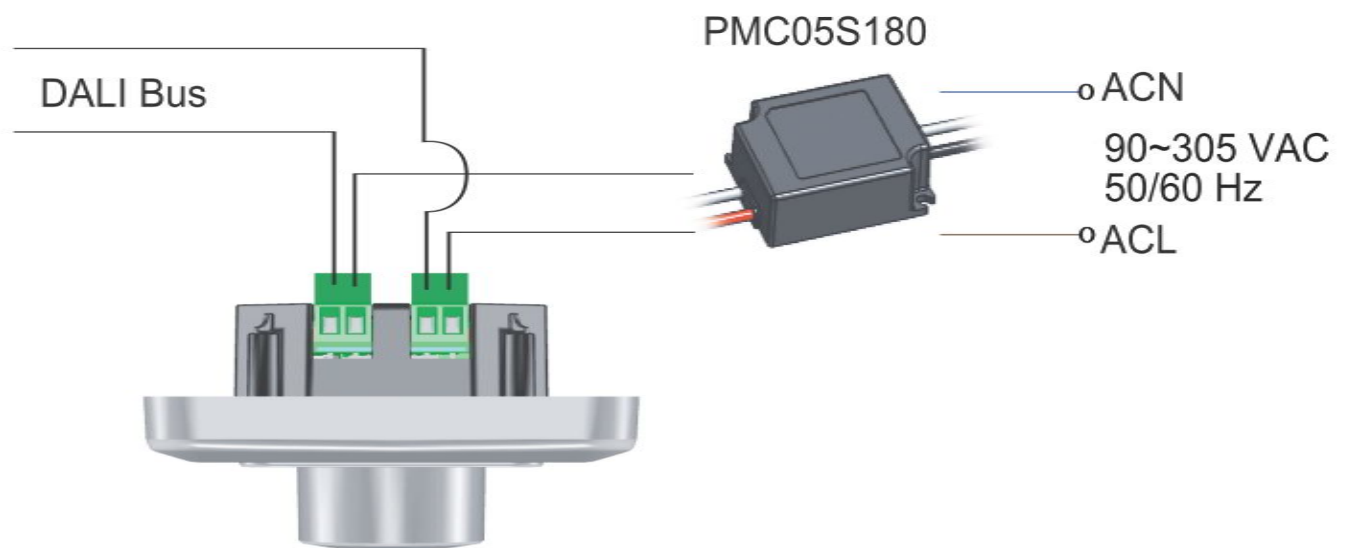


Table A

DALI Bus Max. Cable Length and Diameter Table.	
Lead Length	Minimum Lead Diameter
Up to 100 m	0.5mm ² (20AWG)
100~150 m	0.75mm ² (18AWG)
150~300 m	1.5mm ² (16AWG)

• Installation

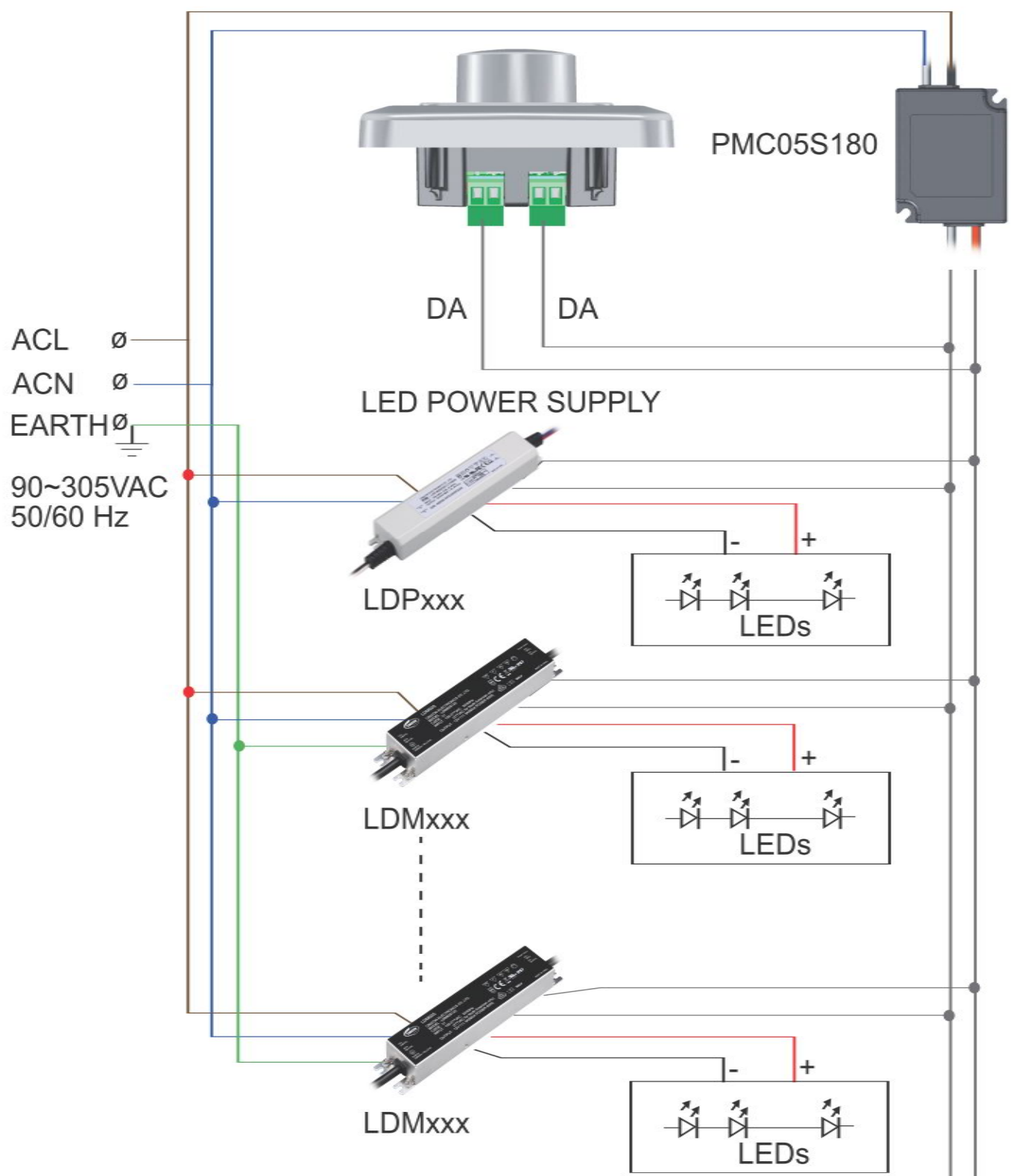


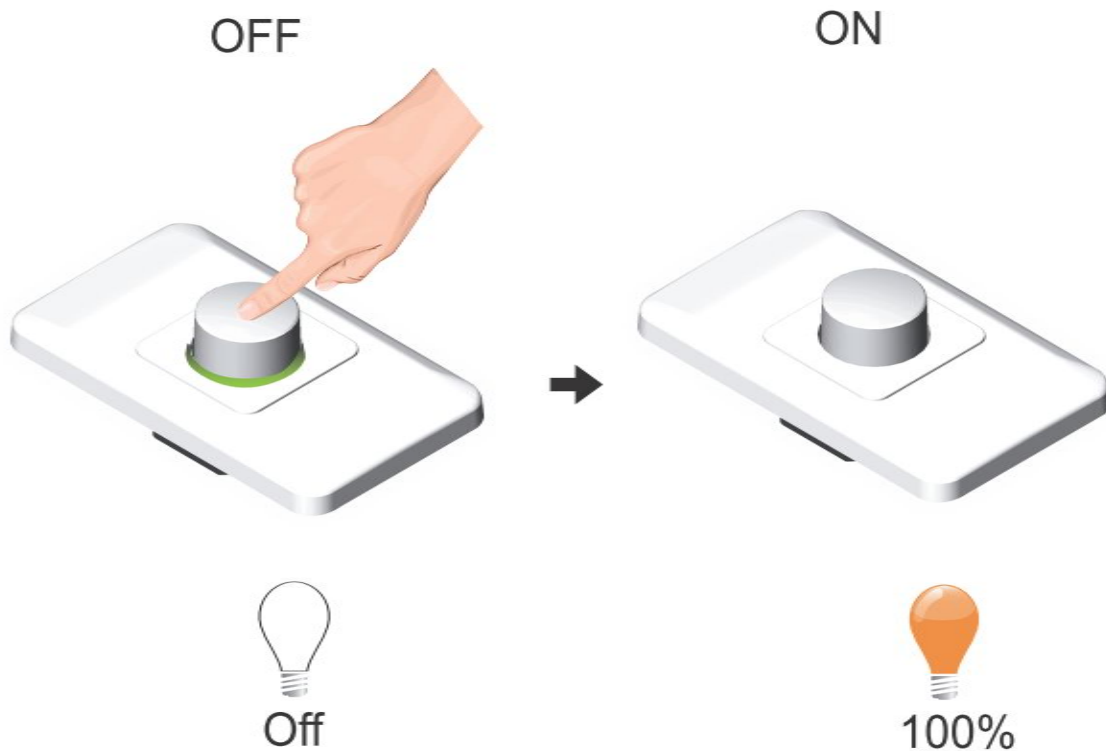
Table B

DALI Bus

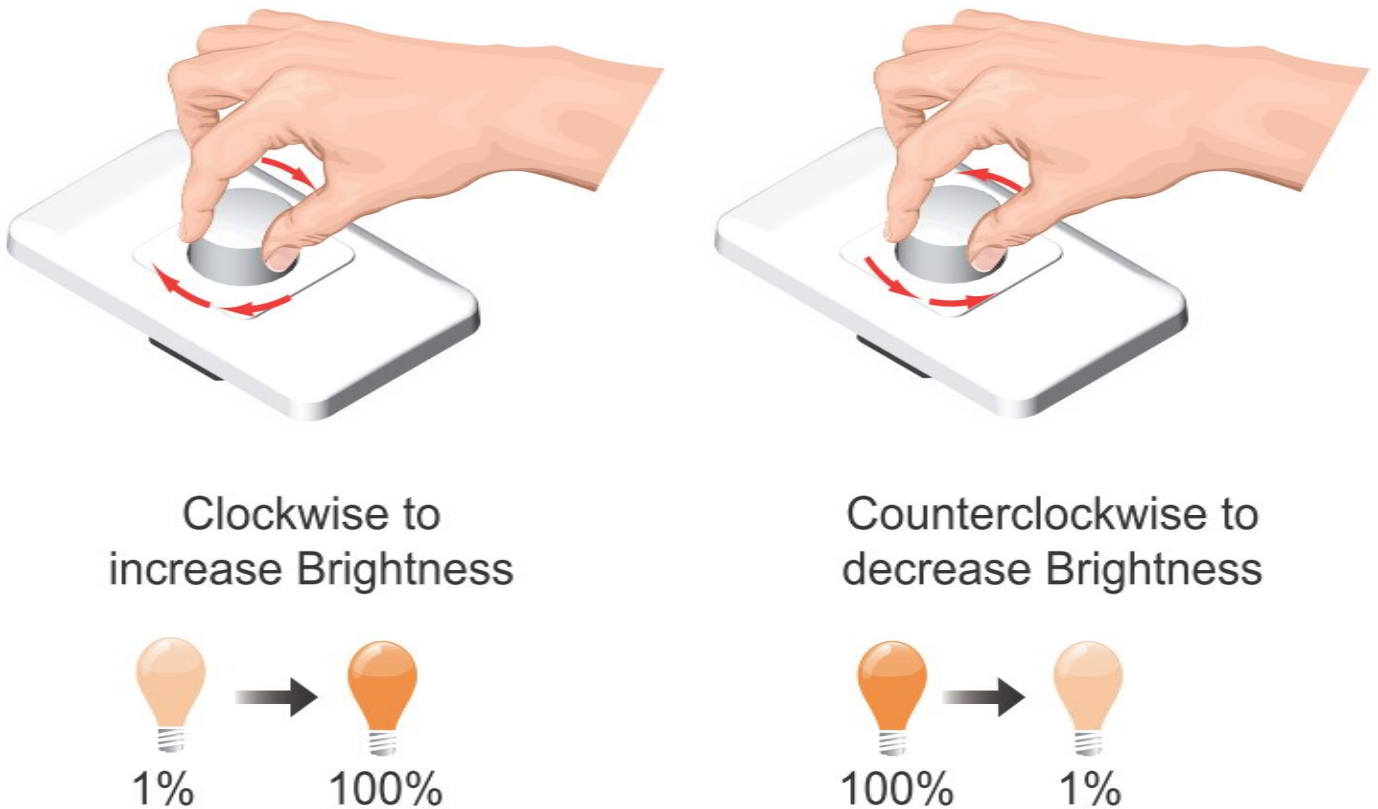
Controller	Maxi. Current consumption	DRIVER	Maxi. Current consumption
DMD-A	25mA ea.	LDPxxx	2mA ea.
DMD-E	20mA ea.	LDMxxx	2mA ea.
DRD	15mA ea.	* PMC05 current output: 200mA maxi.	
BD5	30mA ea.		

• Lighting Control

1. Press Control knob to turn On/Off a lighting group.

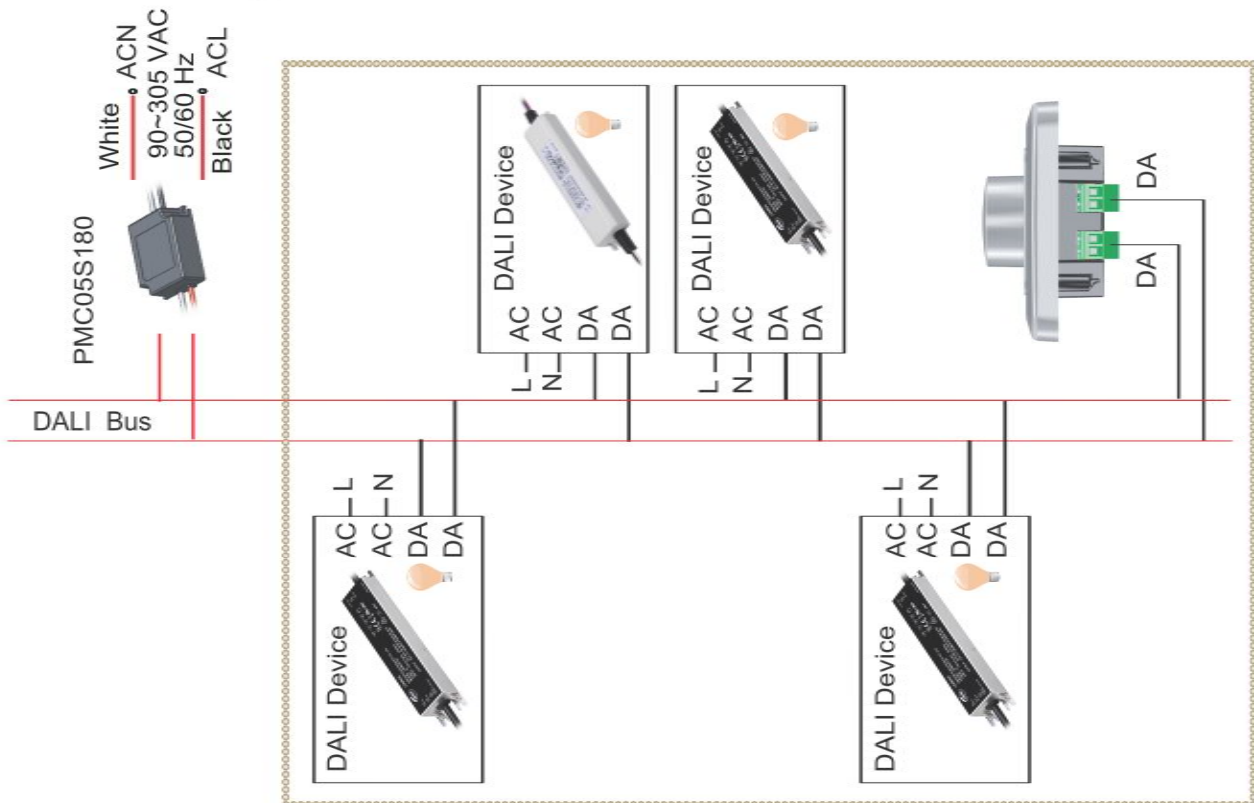


2. Turn Control knob to adjust brightness.

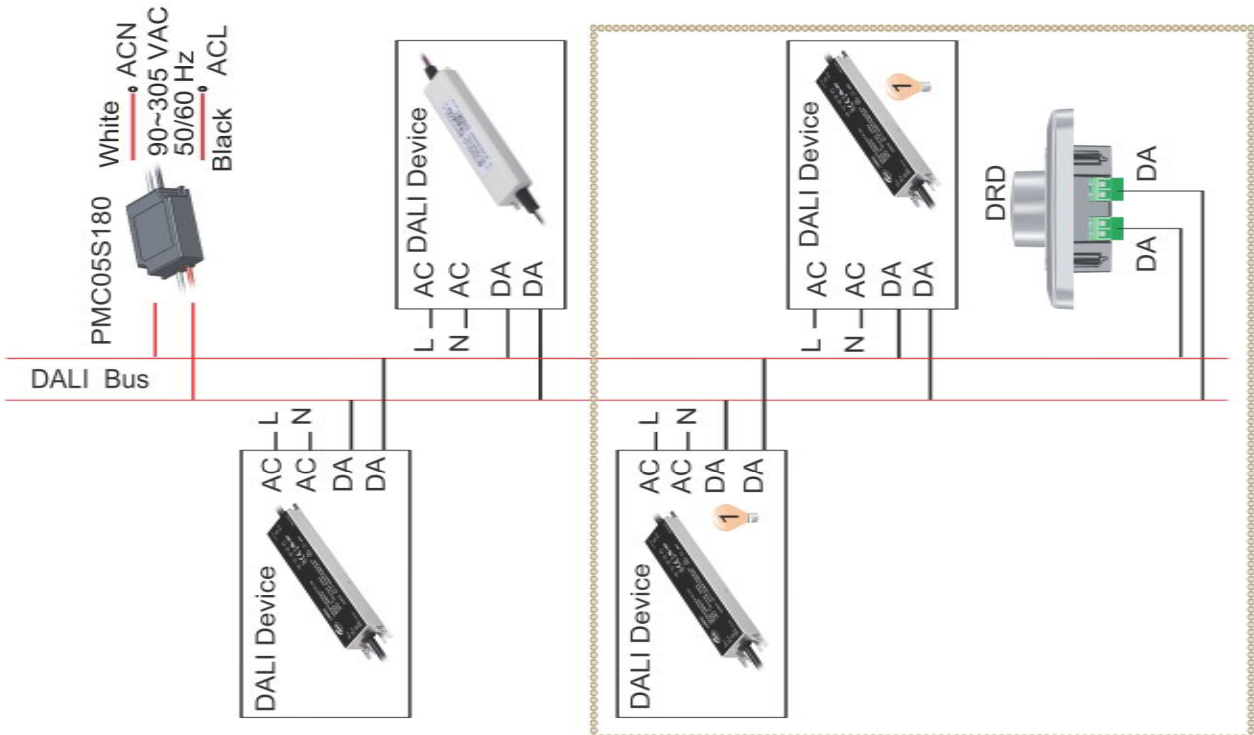


• DRD Group Control Capability

1. Default: DRD will broadcasts control signal to all LED driver connecting with whole DALI BUS.



2. Specified Grouping DRD : DRD will send control signal to LED drivers been programed as same group.



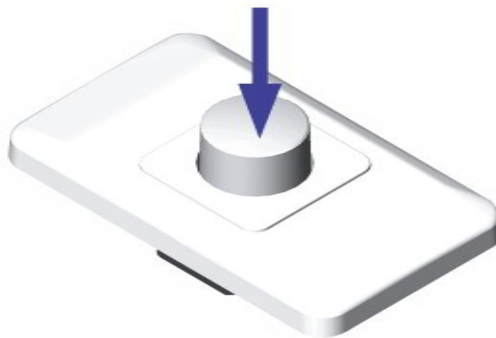
* To know how to grouping DRD, please see DMD-A user manual page 10

• Minimum Brightness Setting

1. Press Control knob to "on"
2. Adjust Control knob to minimum brightness desired.



3. Press Control knob again, holding for greater than 5 seconds. Flashing light confirms new setting. Minimum brightness setting remains in memory until removed.



4. To remove minimum brightness setting, press Control knob to "off", then press Control knob again, holding for greater 5 seconds. Flashing light confirms removal of minimum brightness setting from memory.



• Reset DRD Status

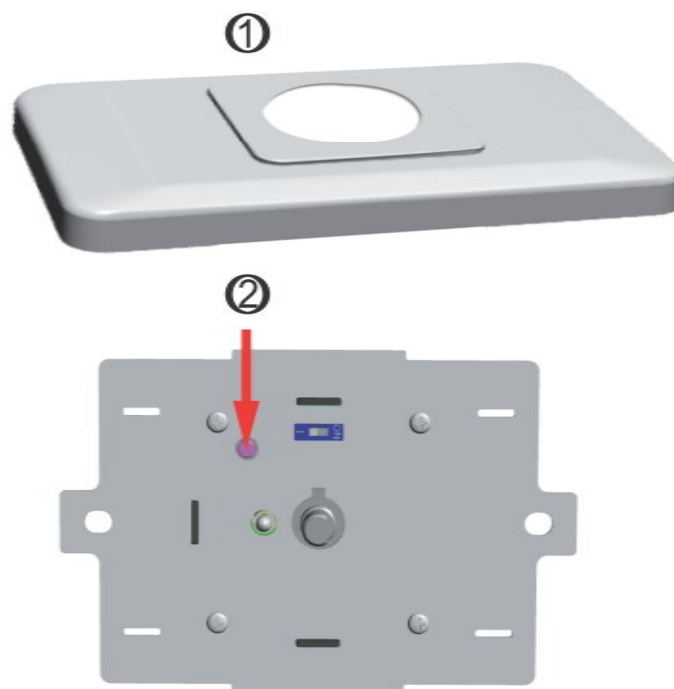
Reset DRD to default setting.

▶ Step 1

1. Remove the cover of DRD-A

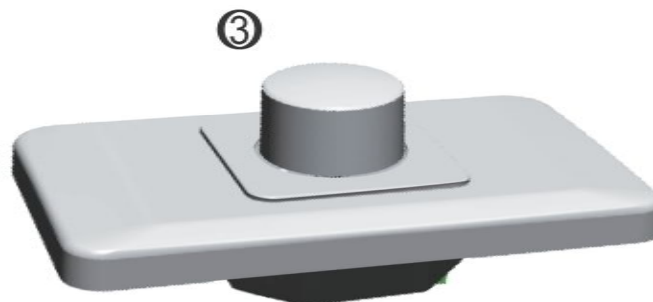
▶ Step 2

2. Hold the "reset button" for 5 seconds.
Flashing light confirms reset done.



▶ Step 3

3. Install the cover back



To reduce the risk of electric shock, this only refer servicing to qualified service personnel.



www.cincon.com

CINCON ELECTRONICS CO., LTD.

Headquarter Office :

14F, No. 306, Sec.4, Hsin Yi Rd.,

Taipei, Taiwan

Tel: 886-2-27086210

Fax: 886-2-27029852

E-mail: sales@cincon.com.tw

Cincon America Office:

1655 Mesa Verde Ave. Ste 180

Ventura, CA 93003

USA

Tel: 805-639-3350

Fax: 805-639-4101

E-mail: info@cincon.com