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SCANDINAVIAN AB
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Model No:D-MA9RDP

Dimmable Constant Current LED Driver 1...10 V & PUSH Technical Data Sheet

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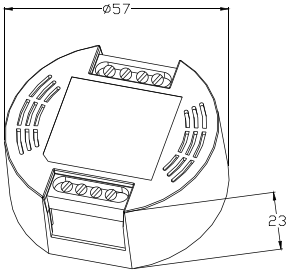
1. Product Characteristics

- 1-10V & Push Dimmable power supply for built-in constant current LED
- Class II protection against electric shock from direct and indirect contact
- SELV output
- Screw terminals
- Open circuit, short circuit, over load and over temperature protection
- Auto restart after fault conditions removal
- No load power consumption≤0.5W
- Efficiency≥80% (AC230V，full load)

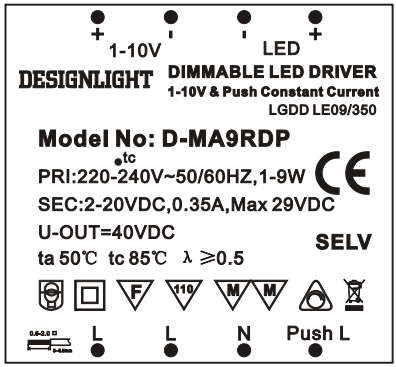
2. Label

D-MA9RDP Picture and Dimension





D57*H23



3. Specification

Input voltage	220-240VAC 50/60Hz
Power out	350mA
Output Voltage min	2VDC
Output Voltage max	29VDC
Effect	1-9W
Temperature protection	Yes
Overload protection	Yes
Short-circuit protection	Yes
Power factor	0.95
Insulation	3750VAC/5MA/1MIN In-out
IP Rate	IP20
EMC Standard	EN55015 EN61547 EN61000-3-2/3
Safety Standard	EN61347-1 EN61347-2-13 EN60598-1
Ambient temperature ta	-20℃~+35℃
Case temperature tc	80℃
Life span	50,000h
Primary cable	4x0,5-1,5mm^2
Secondary cable	4x0,5-1,5mm^2

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350mA | 1-9W | ∅ 57mm | H 23 mm | 1-10V & PUSH | Serie-Kopplas | CE | IP20 | RoHS | SELV EQUIV

4. WIRING DIAGRAM

PUSH-DIM wiring diagram

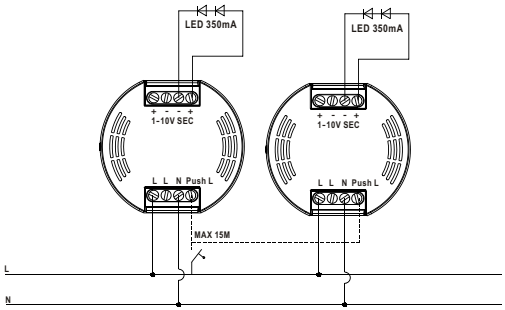
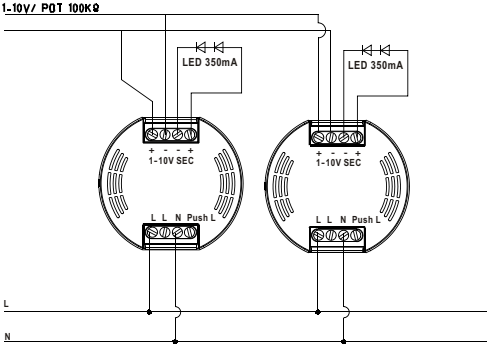


Figure A

1-10V wiring diagram



Figure

5. Instruction

1-10 V control

The brightness of the LEDs varies in proportion to the strength of the signal sent to the converter. If the signal is below 1 V the brightness is zero.

Potentiometer control

Turning the potentiometer varies the brightness in a proportional or logarithmic way depending on the model of potentiometer used. Logarithmic potentiometers are recommended. 100 kΩ

Button control

Pressing the button for less than one second turns the LEDs on or off.

Pressing the button for more than one second dims the LEDs up or down as follows:

If the brightness is less than the maximum: pressing the button increases the brightness until the maximum level is reached or the button is released.

Pressing the button again reverses the dimmer function, and the brightness reduces until the minimum level is reached or the button is released.

NB.

If the push input (230 V pulse) of the driver is activated, the option of using it with the 1-10 V signal is blocked.

To reset this function, short-circuit (jumper) the 1-10 V input for at least two seconds while the converter is powered up on the primary side.

More than one D-MA9RDP LED drivers can be connected to each other with the same push signal.The maximum cable length from the button to the last converter is 15 m.If the cable is longer than 15 m it must be kept separate from other 230V cables.If the dimming cycle is out of sync in the various units,it can be reset as follows:

1) Hold down the button until the maximum level is reached.

2) Release the button,and all the D-MA9RDP LED drivers will be back in sync.

When power is connected/lost on the primary side:

• Push installed (see figure A): The converter starts with the last value (memory function).

• 1-10 V installed (see figure B): The converter starts using the 1-10 V value.

Dimming

• Screw terminal on primary side for button, connection between phase and terminal (impedance = 170 kohm)