

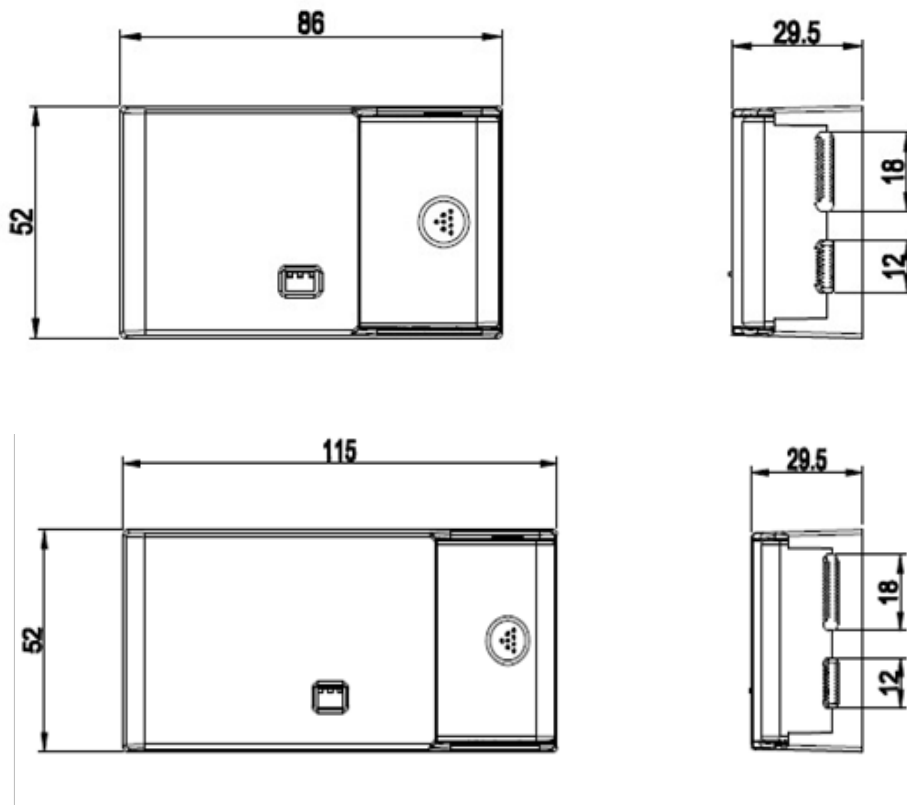


DATASHEET

IL-X2D15-1-10 / IL-X2D40-1-10



Dimensions



Product specifications

IL-X2D15-1-10



Max output power	14.7W @42V 350mA
Dimming range	1-10V: 5%-100%
Flicker percentage	<3%
AC Voltage range	110- 277VAC
Frequency range	47 ~ 63Hz
Power factor	>0.9 at full power
Working Temp.	-20° ~ 45°C
Humidity	-40° ~ 80°C
AC Connector	Push-fit Terminals L, L, N, N; 0.75-2.5 mm ² Cross-section
Warranty	5 years
Lifespan (hrs) @ ta=25°C	>50.000H
Dimension L x W x H	86x52x29.5mm

IL-X2D40-1-10



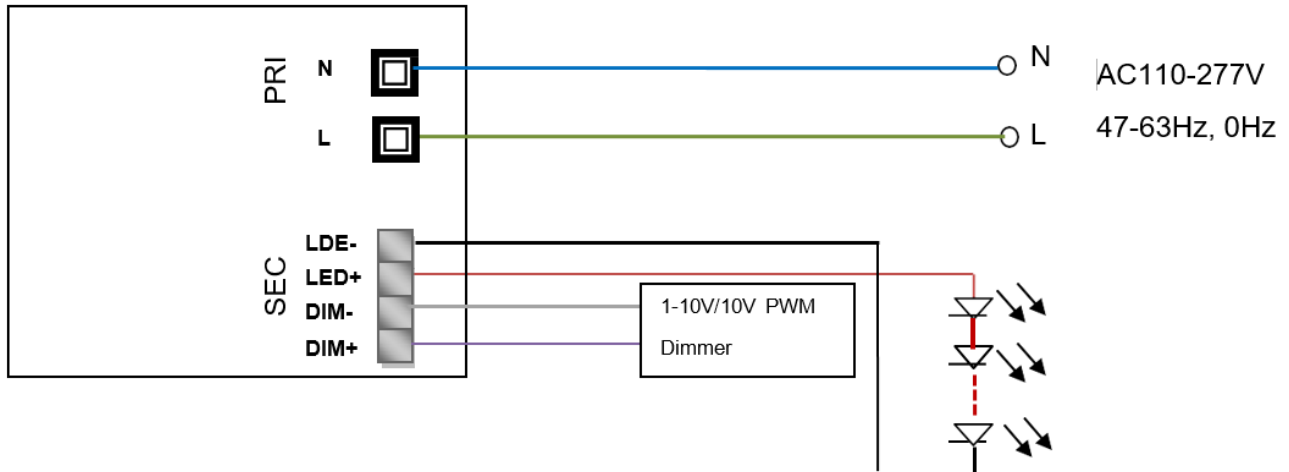
Max output power	41.8W @38V 1100mA
Dimming range	1-10V: 5%-100%
Flicker percentage	<3%
AC Voltage range	110- 277VAC
Frequency range	47 ~ 63Hz
Power factor	>0.95 at full power
Working Temp.	-20° ~ 45°C
Humidity	-40° ~ 80°C
AC Connector	Push-fit Terminals L, L, N, N; 0.75-2.5 mm ² Cross-section
Warranty	5 years
Lifespan (hrs) @ ta=25°C	>50.000H
Dimension L x W x H	115x52x29.5mm

Diagram & Installation manual

The 2in1 ECG offer dimming function to fit the modern lighting control demand. The ECG will change its output current based on 2 different input signal/setup including DC 1-10V, or 10V PWM. For 1-10V dimming, the 0.1mA current is sourcing out from the dimming wire of the LED driver and therefore it is perfect for a passive electronic dimmer application. On the other hand it is also possible to use with an active dimmer to control the output of LED driver.

The maximum level is still 100% in case the dimming signal is given at 10V or open the dimming wires. However the minimum level for DC 1-10V is 5.7% in case the dimming signal is given at 0.57V. In case the dimmer is giving lower than 0.57V or user just short the dimming wires, the LED driver will cut off the output current resulting no light output in the LED module.

Circuit diagram



Instructions

- Compatible with both passive and active 1-10V dimmer
For active dimmer, over 11.0VDC output to ECG is not permitted.
- Connect the 0-10V Master or 10V PWM Master following the above diagram, then you can dim with the dimmer.
- Please note: There has "+" & "-" pole for 1-10V and 10V PWM, don't connect the wrong way, otherwise, it cannot dim the light.
- The maximum permissible length of the control line is 100 meters.
- No memory function.

DIP Switch Table

The 2in1 ECG is a multiple-stage constant current driver, selection of output current through DIP switch is exhibited below:

IL-X2D40-1-10

DIP S.W.	1	2	3
<u>lout</u>			
400mA	-	-	-
500mA	-	-	ON
600mA	-	ON	-
700mA	-	ON	ON
800mA	ON	-	-
900mA	ON	-	ON
1000mA	ON	ON	-
1100mA	ON	ON	ON

IL-X2D15-1-10

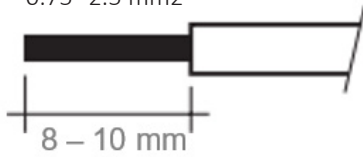
DIP S.W.	1	2	3
<u>lout</u>			
160mA	-	-	-
180mA	-	-	ON
220mA	-	ON	ON
280mA	ON	-	ON
320mA	ON	ON	-
350mA	ON	ON	ON

Wiring type and cross section

The wiring can be in stranded wires with ferrules or solid with a cross section of 0.75–2.5 mm². Strip 8–10mm of insulation from the cables to ensure perfect operation of the push-wire terminals. Use one wire for each terminal connector only.

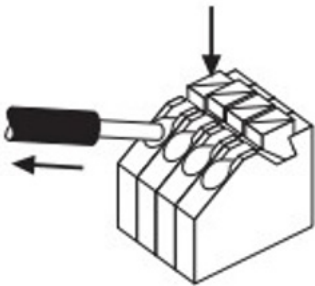
wire preparation:

0.75- 2.5 mm²



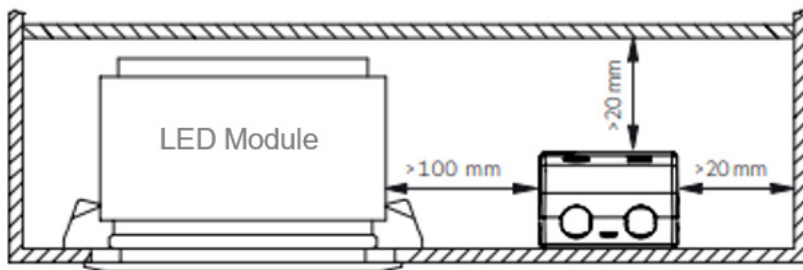
Release of the wiring

Press down the “push button” and remove the cable from front.



Fixing conditions

Dry, acid-free, oil-free, fat-free. It is not allowed to exceed the maximum ambient temperature (t_a) stated on the device. Minimum distances stated below are recommendations and depend on the actual luminaire. Is not suitable for fixing in corner.



Wiring guidelines

- All connections must be kept as short as possible to ensure good EMI behavior.
- Mains leads should be kept apart from LED Driver and other leads (ideally 10 – 20 cm distance)
- Secondary switching is not permitted
- Incorrect wiring can damage LED modules
- The wiring must be protected against short circuits to earth (sharp edged metal parts, metal cable clips, louver, etc.)