LCM-25KN installation manual

Features

- 180~277VAC input only
- Built-in active PFC
- Output current level selectable by DIP switch
- Built-in KNX interface and push dimming function
- Power supply synchronization function up to 10 units
- Class Ⅱ power unit, ungrounded
- Full plastic case enclosed
- No load power consumption <0.5W
- Protections: Short circuit / Over temperature
- 3 year warranty
- Suitable for intelligent LED lighting
- Functions: Manual dim, operation hours, power consumption feedback, log/linear curve selection...etc

Wiring

- Housing with cable clamp for remote installation
- Use wires with an adequate cross-section (see 5)
- Use suitable mounting tools to do the wiring and mounting (see 5)
- Use a MCB (miniature circuit breaker) with an adequate current rating to protect the lighting system (see 6)

Environmental limitations

- Maximum ambient temperature must not exceed 60℃
- Always allow adequate ventilation clearances, 50mm, around the unit in use to prevent it from overheating
- Only install the unit in interior environments

Cautions

- This unit must be installed by a qualified electrician
- It's not suitable to connect DC/DC constant current drivers as the output loads

Settings and connections

1. Output Current Level Settings

The LCM can provide various output currents by setting the DIP switch. The settings of the DIP switch are shown in the tables below.

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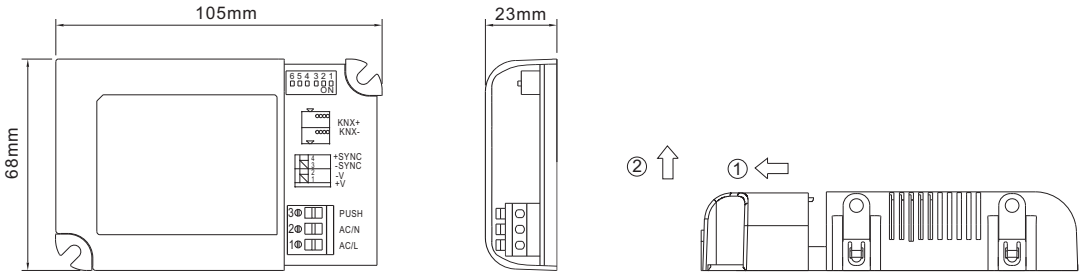
Voltage range	Selectable Current	1	2	3	4	5	6
6-54V	350mA	---	---	---	---	---	---
6-50V	500mA	ON	---	---	---	---	---
6-42V	600mA	ON	ON	---	---	---	---
6-36V	700mA*	ON	ON	ON	---	---	ON
6-28V	900mA	ON	ON	ON	ON	---	ON
6-24V	1050mA	ON	ON	ON	ON	ON	ON

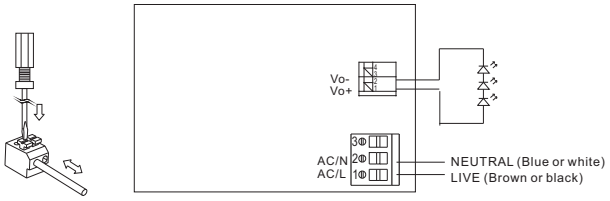
Note : 1.Factory default setting is 700mA.
2.Output voltage and output wattage must not exceed the rated values.

Terminal blocks assignment for LCM



2. Connection of LED Lamps

Press down the "push button" by a slotted screw driver to insert or remove the cable.
Attention: Always connect LED lamps first before connect to 230Vac mains to avoid damage of LED!



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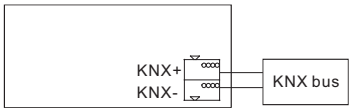
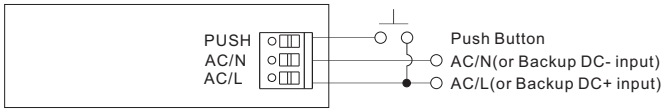
3. Connection of Dimming Functions

a. KNX System



b. Push dimming

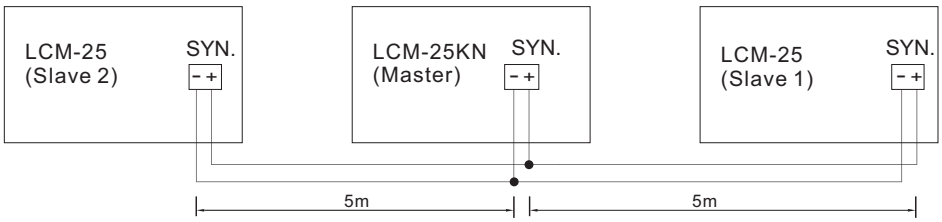


Note: ONLY use open push button without indicator light.

- KNX bus need to be connected in when using PUSH dimming.
- The detailed function of PUSH dimming, please refer to the database.
- The maximum length of the cable between the push button and driver is 20 meters.
- The additive push button can be connected only between the PUSH terminal, as displayed in the diagram, and AC/L (in brown or black); **it will lead to short circuit if it is connected to AC/N.**
- In case the PUSH dimming is set locally, up to 10 drivers can perform the PUSH dimming at the same time when utilizing one common push button.
- In case the PUSH dimming is set independently via ETS, the number of drivers is done through group address and determined by the ETS project designer.

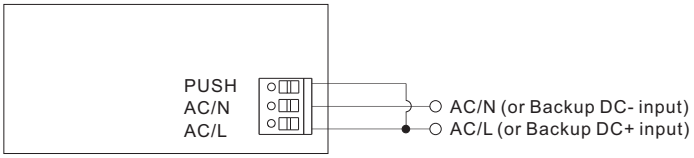
c. Synchronization operation

- Synchronization up to 10 drivers (1 master + 9 slaves)
- Dimming operating range : 6%~100%
- Sync cable length : < 5m
- Sync cable type : Flat cable
- Sync cable cross section area : 22 – 24 AWG (0.2~0.3mm^2)



NOTE : 1. Please make sure all units are set to 100% dimming setting (factory default) before synchronizing.
2. Max Dimming & Min. Dimming operating range depends on database setting.

4. AC/DC input monitor



- KNX bus need to be connected when using AC/DC input monitor
- The detailed function of AC/DC input monitor, please refer to the database and instruction manual.

5. Recommended Screwdriver, Wire and Torque Setting

Type	Clamp connector	Push terminal (Vo±, DIM±)	Push terminal (ACL/N, PUSH, DA±)
Solid wire	-----	J0.8 -J1.382mm	J0.8 -J1.8mm
Stranded wire	-----	0.5 - 1.5mm^2	0.5 - 2.5mm^2
American wire gauge	-----	16 - 20AWG	14 - 20AWG
Wire stripping length	-----	7mm (0.27")	10mm (0.39")
Screwdriver	6mm Philips	3mm Slotted	3mm Slotted
Recommended tightening torque	4kgf-cm (3.47 lb-in)	-----	-----
Suggested push-down strength	-----	1.5 - 2.4 kp (3.31-5.29 lbF)	3 - 4 kp (6.61-8.81 lbF)

6. Suggested Maximum Number of the LCM Units that can be Connected to a MCB (miniature circuit breaker) at 230Vac

Model	B10	B16	C10	C16
LCM-25KN	20	32	34	54

Note: These calculated values are based on MCB S201 series manufactured by ABB.

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7. Configuration and Commissioning

The application program(database) can be downloaded via Online Catalogs from ETS or via http://www.meanwell.com/productCatalog.aspx