

Installation and Instruction Manual

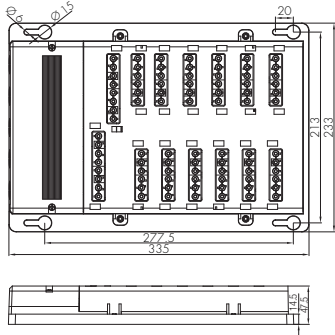
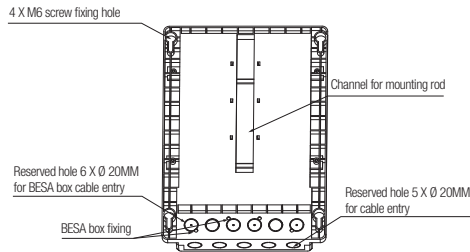
GST Type 6-Pole Quick Connection Box for Dimming Application DALI or 0/1-10V output

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QCB03/ECO

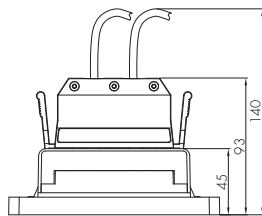
1. Technical Specifications

Mains voltage	220~240VAC 50/60Hz
Rated load	Rating of system 16A. Rating of each output 10A
Terminal capacity	0.75 - 4.0mm ² (max. 2 x 2.5mm ²)
Storage temperature	-20°C ~ +60°C
Max. relative humidity	20 ~ 90%
Insulation	Class II

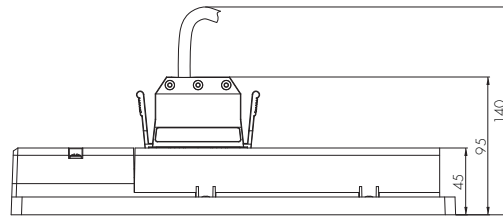
2. Dimensions (mm)



4. Plug Minimum Installation Height



Sensor plug (HP06)



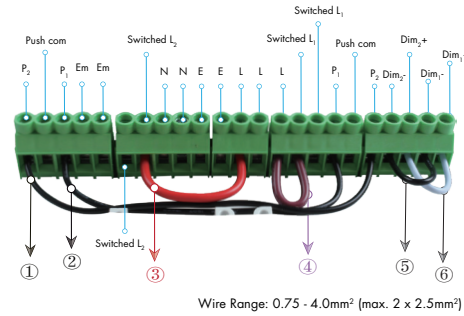
Luminaire plug (HP03)

Note: The minimum height for total height of unit is 140mm(including connectors and cables).

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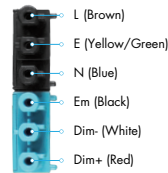
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3. Input & Output Terminal Function

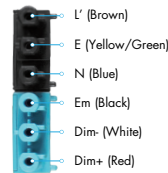


Luminaire outlet

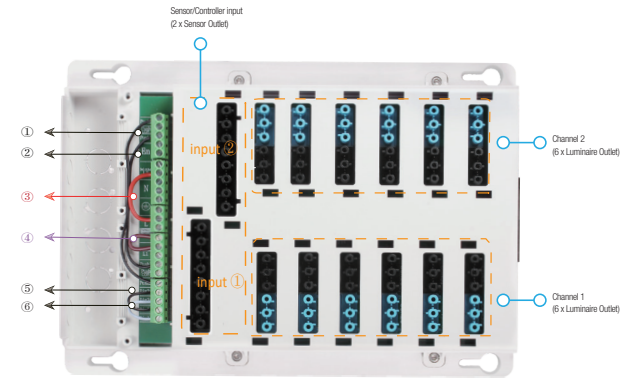
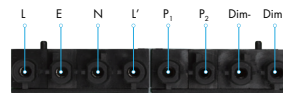
When using DALI dimming



When using on/off switching or 0/1-10V dimming



Sensor outlet



Factory default for QCB03/ECO comes with six pre-installed jumper wires. The wire ① short-connects Push 2, the wire ② short-connects Push 1, the wire ③ short-connects Switched L2 and L, the wire ④ short-connects Switched L1 and L together, the wire ⑤ short-connects Dim2- and Dim1-, and the jumper wire ⑥ short-connects Dim2+ and Dim1+. With these jumper wires, user can freely choose different dimming control method and also freely switch between one-channel and two-channel control.

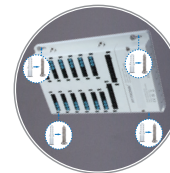
- one-channel / one sensor (1 x 12) DALI dimming ----- remain all jumper wires connected.
- two-channel / two sensor (2 x 6) dual DALI dimming ----- remain wire ③ & wire ④, remove wire ①, ②, ⑤ and ⑥.
In this case the two channels will be controlled separately (channel 1 is controlled by Dim1+ & Dim1-, and channel 2 is controlled by Dim2- & Dim2+).
- one-channel / one sensor (1 x 12) 0/1-10V dimming ----- remove wire ④, remain the other jumper wires connected.
- two-channel / two sensor (2 x 6) dual 0/1-10V dimming ----- remove all jumper wires.
In this case the two channels will be controlled separately (channel 1 is controlled by Switched L1, Dim1+ & Dim1-, and channel 2 is controlled by Switched L2, Dim2- & Dim2+).
- two-channel / two sensor (2 x 6) DALI dimming + on/off switching ----- remain wire ④, remove the other jumper wires.
In this case the two channels will be controlled separately (channel 1 is controlled by Dim1+ & Dim1-, and channel 2 is controlled by Switched L2).
- two-channel / one sensor (2 x 6) DALI dimming + on/off switching (eg. HBIR29/2CH) ----- remain wire ③, ⑤, ⑥, remove the other jumper wires.
In this case, the sensor need to be plugged into input 1. The two channels will be controlled separately (channel 1 is controlled by Dim1+ & Dim1-, and channel 2 is controlled by Switched L2).
- two-channel / two sensor (2 x 6) DALI dimming + 0/1-10V dimming ----- remain wire ④, remove the other jumper wires.
In this case the two channels will be controlled separately. Channel 1 is controlled by DALI (Dim1+ & Dim1-), and channel 2 is controlled by (0/1-10V) Switched L2.

This flexible design aims to reduce model inventories for users, and just one box is capable enough to handle different dimming requirements on the project site. Easy for management, and powerful for usage!

5. Installation methods

Surface Mount

It can work with 4 x M6 screws to fix onto both walls and ceilings.



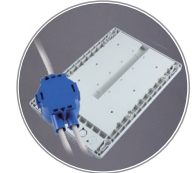
Mounting Rods

It can be fixed with mounting rods.



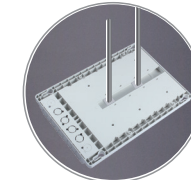
BESA/Junction Box Connection

It can be connected with BESA/junction box.



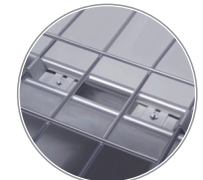
Channel Nut Mount

It can work with channel nuts to fasten into the back.



Marco Tray Mount

It can work with Marco clips steel wire cables tray system.



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Factory default setting with a pre-installed jumper wire One-channel (1x12) dimming control

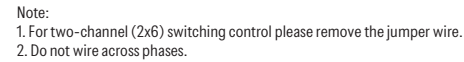


Diagram illustrating the wiring connections for a 16-pin connector. The connections are as follows:

- P2: Connected to the top terminal.
- PUSH COM: Connected to the terminal below P2.
- P1: Connected to the terminal below PUSH COM.
- EM: Connected to the terminal below P1.
- SWITCHED L2: Connected to the terminal below EM.
- SWITCHED L2: Connected to the terminal below SWITCHED L2.
- N: Connected to the terminal below SWITCHED L2.
- L: Connected to the terminal below N.
- SWITCHED L1: Connected to the terminal below L.
- SWITCHED L1: Connected to the terminal below SWITCHED L1.
- P1: Connected to the terminal below SWITCHED L1.
- PUSH COM: Connected to the terminal below P1.
- P2: Connected to the terminal below PUSH COM.
- DIM2+: Connected to the terminal below P2.
- DIM2-: Connected to the terminal below DIM2+.
- DIM1-: Connected to the terminal below DIM2-.
- DIM1+: Connected to the terminal below DIM1-.

Note: Do not wire across phases.

The diagram illustrates a 200V, 3-phase, 4-wire system. It features a central emergency test switch connected to the main supply lines (L1, L2, L3, N). The system is divided into two main sections, each representing a 'Multiple box' configuration. Each section shows a vertical busbar with multiple terminals. The wiring includes connections for P2, PUSH COM, P1, EM, SWITCHED L2, SWITCHED L1, DIM2+, DIM1-, and DIM1+. The diagram uses standard electrical symbols for switches, busbars, and terminals, with red lines highlighting specific wiring paths.

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