Installation and Instruction Manual

HYTRONIK®

GST type 6-pole Quick Connection Box for dimming Application

SCB03

1.Description

Dual-circuit design for applciations with both essential & non-essential supplies.
GST type 6-pole terminal base quick connection box for dimming application, with DALI or 0/1-10V output, 12 luminaire outlets and 2 sensor outlet. Freely switch between1-channel and 2-channel control. Rating of system 16A, rating of each output 10A.

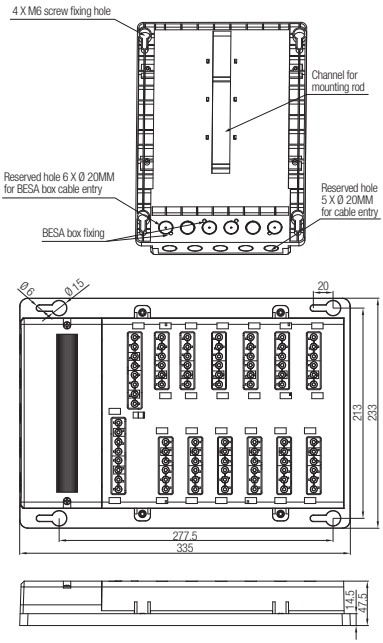
2. Key Features

- Dimmable control applications (DALI-2 or 0/1-10V)
- Dual-circuit design for applications with both essential & non-essential supplies
- 12 luminaire outlets + 2 extra sensor outlet for sensor connection
- Luminaire outlet: GST type 6-pole terminal base (L' or L, N, E, Em, Dim+, Dim-)
- Sensor outlet: GST type 8-pole terminal base (L, N, E, L', P1, P2, Dim-, Dim+)
- Black housing and white housing available to choose from
- Tamper-proof structure design
- Expandable: easy extension to another QCB03 via plug' n' play
- Rating of system: Max 16A. Rating of each output: Max 10A
- Flame-retardant material for safety protection

3. Your Benefits

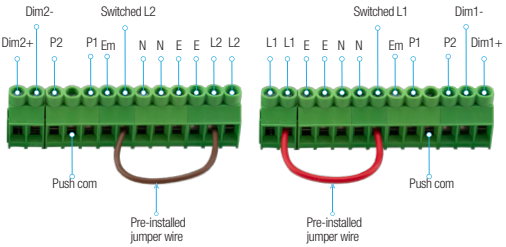
- Five types of installation methods meets different project needs
- Reduce labour hours and labour cost significantly
- Simple and intuitive wiring connections
- Improved safety level during wiring operations
- Clear and clean wiring makes it easy for future maintenance
- Can be supplied with pre-wired cables

4. Dimensions (mm)

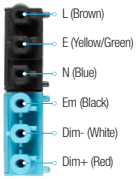


Attention: When the input power supplies are from two different phases, the voltage between the two L terminal could be as high as 415V.

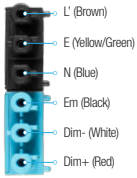
5. Input & Output Terminal Function



Wire Range: 0.75 - 4.0mm2 (max. 2 x 2.5mm2)

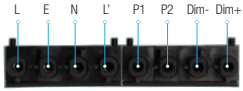


When using DALI dimming

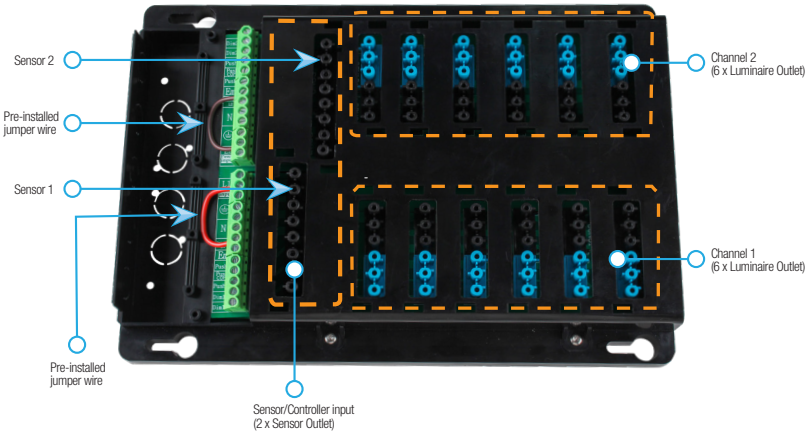


When using on/off switching or 0/1-10V dimming

Luminaire outlet



Sensor outlet



Factory default for SCB03 comes with 2 pre-installed jumper wires. The brown wire short-connects Switched L1 and L1 together, the red jumper wire short-connects Switched L2 and L2 together. With these jumper wires, user can freely choose different dimming control method and also freely switch between DALI control and 0/1-10V control.

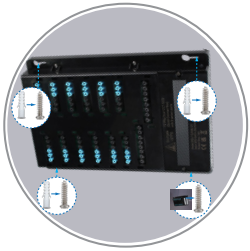
1) two-channel (2 x 6) dual DALI dimming -- -- -- keep both jumper wires.
2) two-channel (2 x 6) dual 0/1-10V dimming -- -- -- remove both jumper wires.
3) two-channel (2 x 6) with Sensor 1 using DALI dimming, and Sensor 2 using On/Off or 0/1-10V dimming -- -- -- remove red wire, keep brown wire.
4) two-channel (2 x 6) Sensor 1 using On/Off or 0/1-10V dimming, and Sensor 2 using DALI dimming -- -- -- remove brown wire, keep red wire.

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!

6.Installation methods

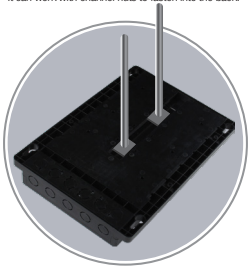
Surface Mount

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



Channel Nut Mount

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

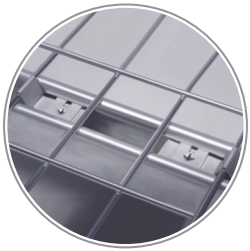


Mounting Rods

It can be fixed with mounting rods.

Marco Tray Mount

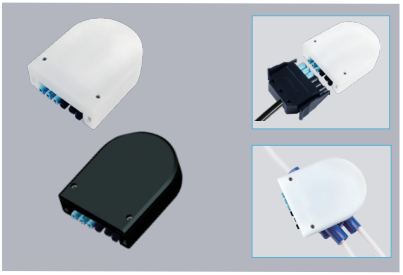
It can work with Marco clips steel wire cables tray system.



Ceiling Rose

1.Description

Ceiling rose QCCR02 can be used when there is a need to take power and dimming signal from a conduit box. The installation-friendly design comes with a very spacious termination space for really easy wirings.

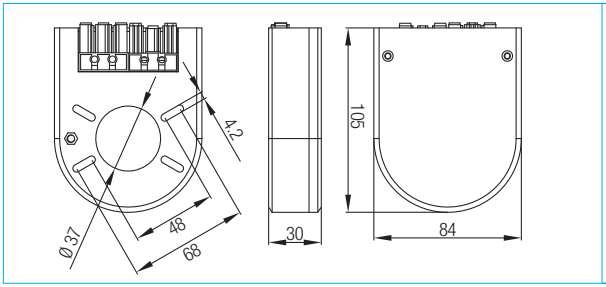


*QCCR02 is supplied with white color housing by default. Black color housing can be supplied upon request.

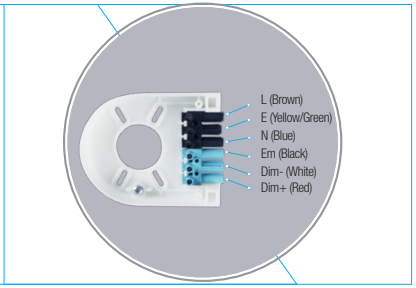
2.Key Features:

- Can be freely placed or fixed with BESA/junction box
- Taking power from BESA/junction box
- 6-pole GST type connector (L, E, N, Em, Dim+, Dim-)
- Allowing fast connection with Hytronik quick connection box
- 15mm depth big cabling space
- 48-68mm pitch for conduit mounting
- Nominal current max.16A
- Flame-retardant material for safety protection

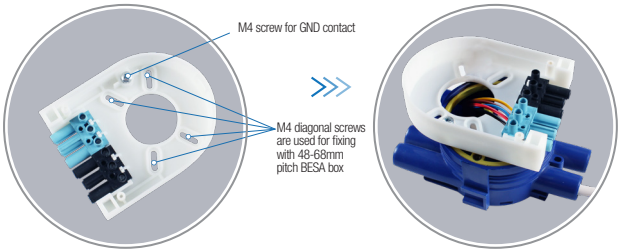
3.Mechanical Structure & Dimensions



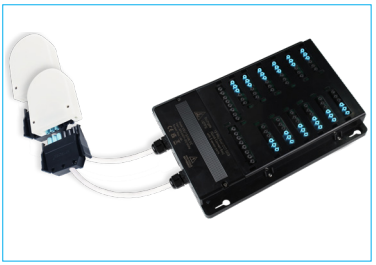
4.Input & Output Terminal Function



5.Secure QCCR02 with BESA/Junction box



6.Connection to Hytronik's QCBs

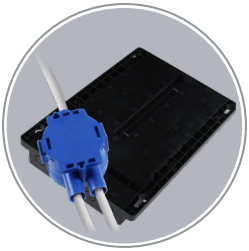


7.Power Supply methods

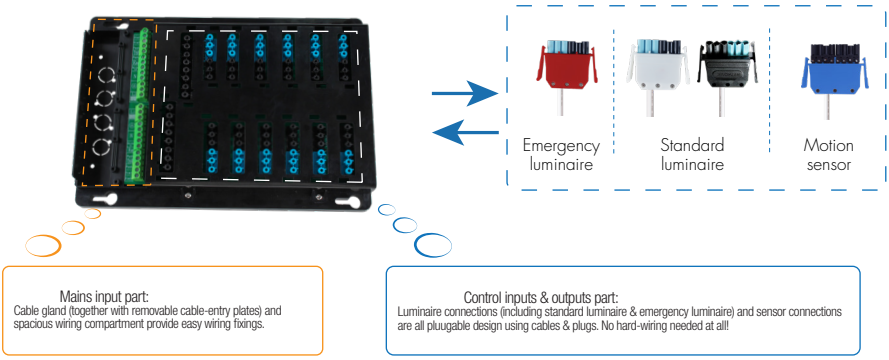
Conventional power supply from the front end

BESA/Junction Box Power Supply

*Suitable for Channel Nut Mount & Mounting Rods.



8.Connectivity



9.Dual-circuit application with non-essential & essential supplies