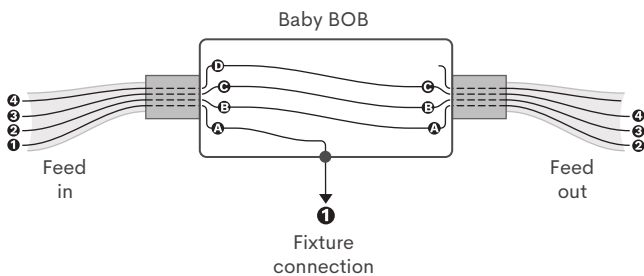
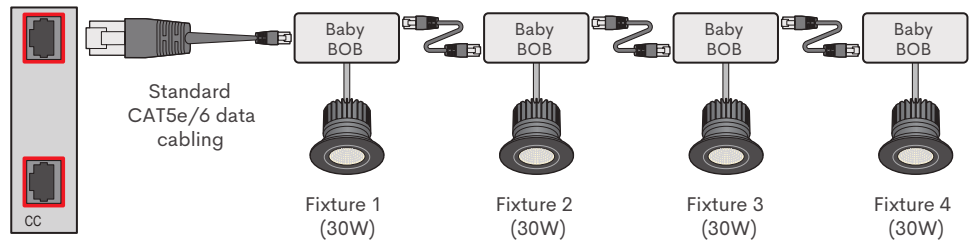


As an integral part of the GDS Drive Hub system, Break Out Boxes (BOBs) receive incoming power from constant current drive cards mounted within the Card Frame and distribute it appropriately to the connected LED fixtures. There are numerous Break Out Boxes, each of which is designed to address slightly different requirements, as dictated by practical constraints within installations:

## Baby BOB

These break out boxes are best suited to serve fixture groups which are widely distributed. Each Baby BOB extracts just one channel from the CAT5e/6 feed cable and passes the remainder to the next Baby BOB via a new length of CAT5e/6 cable.



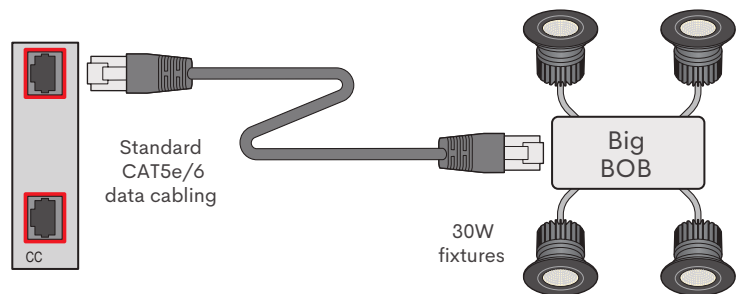
At the fourth Baby BOB in the line, the final channel is delivered to the attached fixture (or group of fixtures). Each Baby BOB is internally identical and no configuration is required. The identity of each fixture is determined purely by the order in which its Baby BOB is connected to the CAT5e/6 feed.

### Compatible with the following drive card:

- 8ch 700mA CC (Part: DHDC8CHCC0.7)

## Big BOB

These break out boxes are best suited to supply fixture groups which are located in the same vicinity.

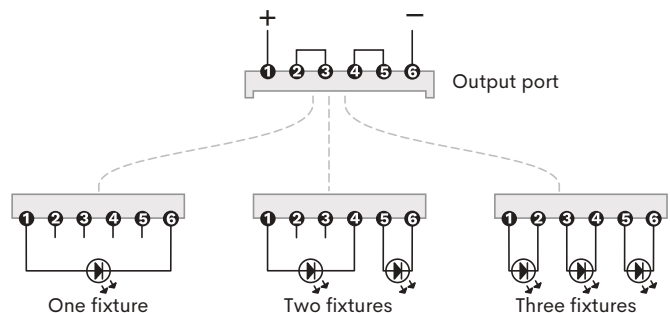
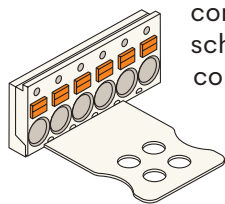


### Compatible with the following drive card:

- 8ch 700mA CC (Part: DHDC8CHCC0.7)

### Connecting multiple fixtures to each port

The output ports on Baby BOB, Big BOB and Smart BOB modules all use WagpicoMAX<sup>®</sup> pluggable connectors and benefit from a wiring scheme which allows you to easily connect one, two or three LED fixtures (in series) to each port. When connecting multiple fixtures, care must be taken not to exceed a forward voltage (plus cable volt-drop) of 48VDC. Depending on the number of the fixtures (1, 2 or 3), they are linked to the 6-way port connector in one of three ways, as shown here:

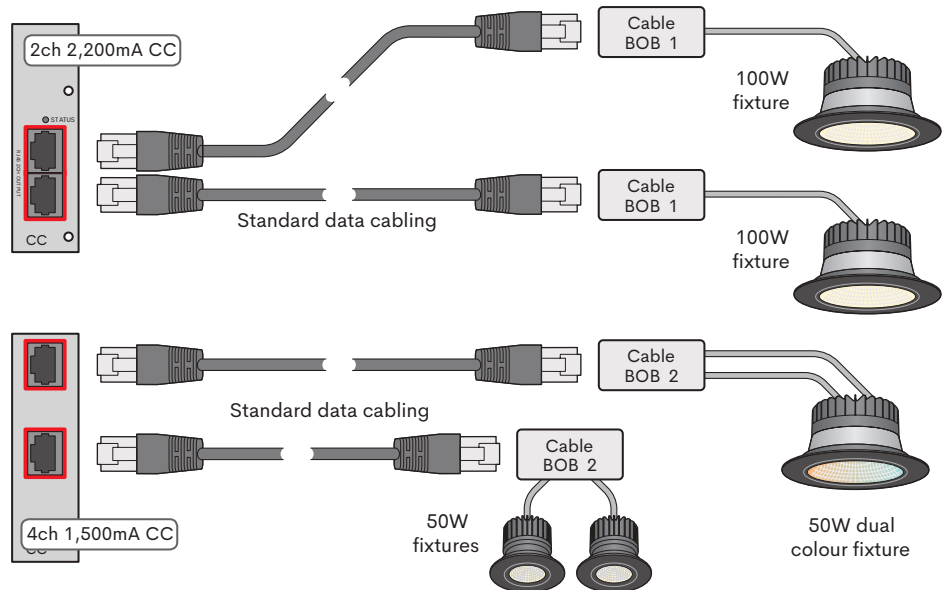


**Note:** If the total Vf is greater than 48V, the LEDs will not illuminate, however, no damage will be caused to the driver system.

## Cable BOB

Available in three versions, Cable BOBs fulfil a number of roles:

- **Cable BOB 1** allows higher power fixtures, up to 100W, to be safely fed via CAT5e/6 cabling. In combination with the 2 x 2,200mA drive card, the Cable BOB 1 combines all of the wire pairs within standard CAT5e/6 to deliver high current without exceeding limits. Two Cable BOB 1 modules can be used with each drive card.
- **Cable BOB 2** works with the 4 x 1,500mA drive card to provide two channels, either to two separate 50W fixtures or a single colour mixing fixture (with dual 50W channels). Two Cable BOB 2 modules can be used with each drive card.
- **Cable BOB 4** is matched to the 8 x 700mA drive card to deliver four 30W channels. Two Cable BOB 4 modules can be used with each drive card to transfer the full 8 channels.



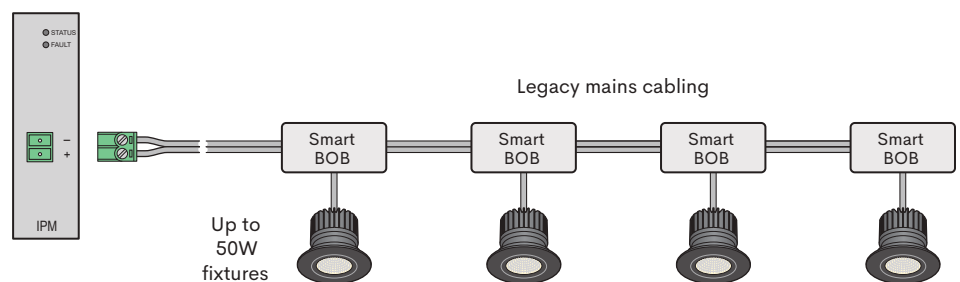
All Cable BOBs use 2-pin Phoenix Contact® 5.08mm-pitch terminal connectors for each of their output channels.

### Compatible with the following drive cards:

- Cable BOB 1: 2ch 2,200mA CC (Part: DHDC2CHCC2.2)
- Cable BOB 2: 4ch 1,500mA CC (Part: DHDC4CHCC1.5)
- Cable BOB 4: 8ch 700mA CC (Part: DHDC8CHCC0.7)

## Smart BOB

Smart BOBs are closely allied with the IPM drive card and are ideally suited for installations where a re-wire between the supply room and LED fixtures would be too disruptive and/or expensive to carry out. Instead, these cleverly synchronised units allow the existing mains cabling (that previously fed legacy incandescent fixtures) to be re-purposed as multi-channel low voltage feeds to replacement LED fixtures.



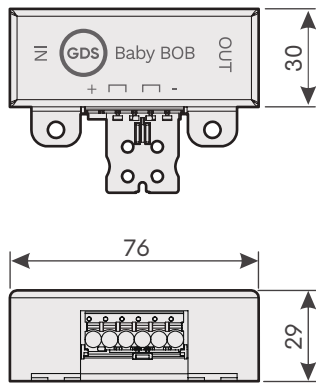
The IPM drive card encodes control signals for four separate channels onto a single 2-core legacy cable, together with a 10A DC supply current, to provide a 500W combined feed. Multiple Smart BOBs can then be attached along the common 2-core cable, each of which can break out a chosen channel to drive an LED fixture (or group of fixtures) up to 50W. More than four Smart BOBs can be used on a cable (with some sharing the same control channels) providing the overall power draw does not exceed 500W. Configuration buttons on each Smart BOB allow the installer to choose the required control channel and fixture current requirements.

### Compatible with the following drive card:

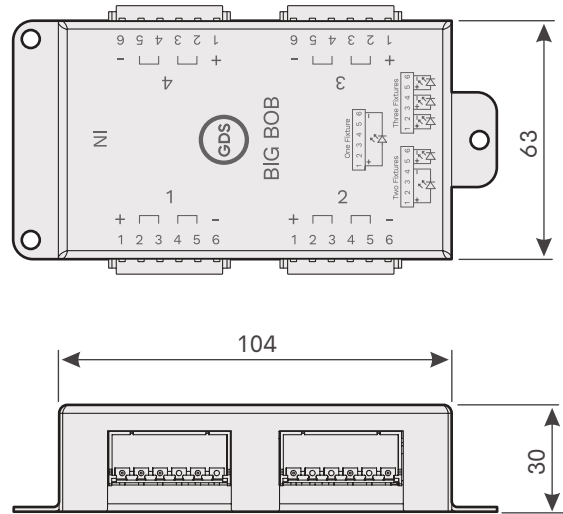
- IPM 10A (Part: DHDCIPM)

## Dimensions

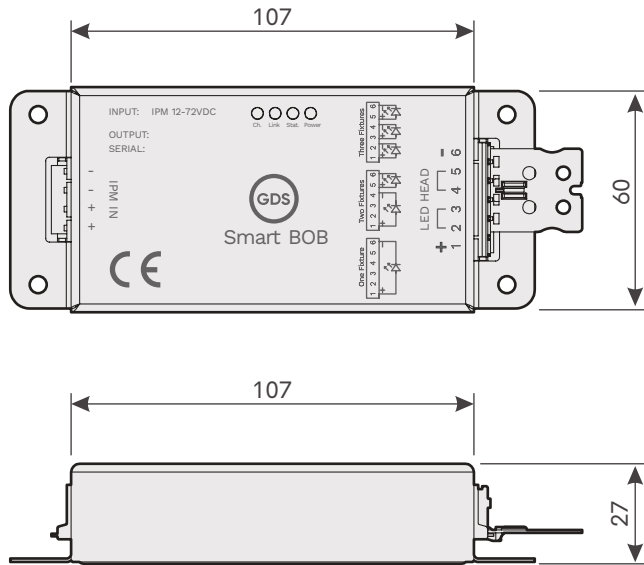
### Baby BOB



### Big BOB



### Smart BOB



## **BOB options**

BOB type	Order code
Baby BOB	DHBAB
Big BOB	DHBIB
Cable BOB 1	DHBC1
Cable BOB 2	DHBC2
Cable BOB 4	DHBC4
Smart BOB 1	DHBSM1CHCC1.0

Specifications are subject to change without notice.