




# ClickOn Bus Dimmer 900W Din Rail

## CB-DIM-20

### Installation Instructions and User's Guide



#### Specifications

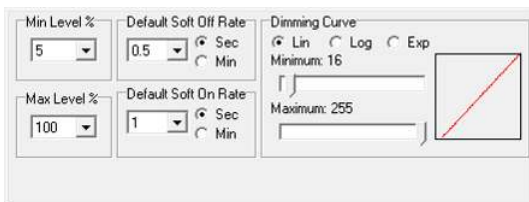
- Mains side supply voltage: 220-240V~ 50Hz
- Minimum load: 10W @ 230V~
- Maximum load: 4A (920W @ 230V~)
- Load types:
  -  220V Incandescent Lamps and 220V Halogen Lamps
  -  Low voltage electronic transformers
  -  Low voltage magnetic transformers
- Bus side supply voltage: 15-24VDC (via bus network cable)
- Bus side supply current: 20mA maximum
- Memory capacity (linked devices): 32
- Ambient Temperature: 0 – 40 °C (32 – 104 °F)
- Ingress Protection: IP20
- Dimensions: 70mm (width) x 58mm (height) x 86mm

#### Installation

- The dimmer unit should only be installed by a suitably qualified person
- This dimmer is not designed for use with fluorescent, compact fluorescent, non-dimmable electronic low voltage transformers, ceiling fans or any appliances
- Dimmer units should be installed in a suitable distribution box fitted with 35mm din rail
- Ensure that the mains power has been switched off before commencing installation
- All mains wiring should be done in accordance with local authority wiring regulations
- Leave a space of 1 din rail module (approx. 17mm) between dimmer units
- A safe isolation distance should be kept between all mains wiring and the Bus network cable
- Always Isolate the dimmer from the mains supply before performing a Megger test on the electrical installation
- See the *ClickOn Bus Network installation Guide* for more information on the Bus network wiring

#### Setup

- To link a ClickOn Bus Wallswitch button to the dimmer without using the CLBUS installation software:
  - Enter program mode by pressing and holding the dimmer pushbutton until the LED starts flashing amber
  - Press and hold the wallswitch button until the wallswitch LED flashes at a faster rate
  - Press and release the dimmer pushbutton to exit program mode
- Setup from CLBUS installation software:
  - Enter the dimmer unit setup by double clicking on the device in the device list after a LIST DEVICES
  - Use the **Setup Tab** to change the following device parameters:



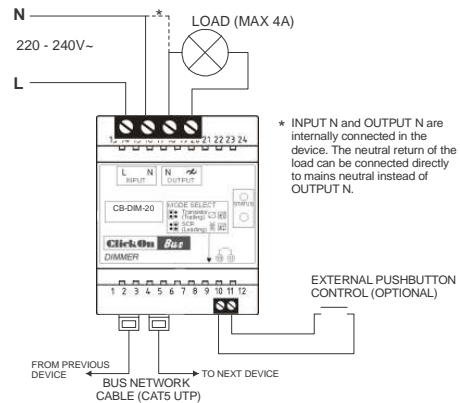
- **Min Level:** Set minimum light level
- **Max Level:** Set maximum light level
- **Default Soft Off/On Rate:** Set the rate at which the light will switch on
- **Dimming Curve:** Set the dimming curve and minimum/maximum offset according to the load type connected to the dimmer output (leave on default settings for incandescent and halogen lamps)

- Use the **Links Tab** to link input devices (wall switches and remote controls) to the dimmer device

#### Operation

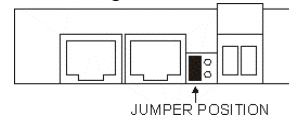
- Press and release the unit pushbutton or external pushbutton to toggle output
- Press and hold pushbutton to dim light up or down
- Operation from a ClickOn Bus Wallswitch:
  - Press and release wallswitch button to toggle output
  - Press and hold wallswitch button to dim light up or down
- The dimmer will automatically shut down (output turned off) when a fault condition is detected (see *Status LED*)

#### Wiring Diagram

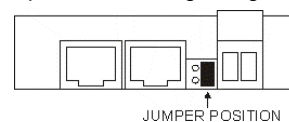


#### Mode Selection

Trailing Edge (220V Incandescent/Halogen Lamps or Low Voltage Electronic Transformers):



Leading Edge (220V Incandescent/Halogen Lamps or Low Voltage Magnetic Transformers):



#### Status LED

- **Constant Green:** Output switched OFF
- **Constant Red:** Output switched ON
- **Flashing red:** Indicates fault condition
  - 1 Flash: 220-240V~ supply not present
  - 2 Flashes: Load short circuit condition detected
  - 3 Flashes: Overload
  - 4 Flashes: Incompatible load type
  - 5 Flashes: Over temperature error
  - 6 Flashes: Zero crossing error
  - 7 Flashes: Supply overvoltage
  - 8 Flashes: Load overvoltage detected (Incompatible load type or incorrect mode)
- **Flashing amber:** Program mode active