# philips dynalite

# DMBC110

1 x 10A HF Ballast Controller Installation Manual



#### features

- Single Phase Supply 1 phase at 10A
- 1 x Switched Output Rated at 10A Inductive
- 1 x Ballast Control Output DALI Broadcast, 1-10V, DSI
- Tungsten Carbide pilot contact Relay, 12A inductive, 120A surge
- **Powerful Internal PLC** Custom scripts can be written to provide process control based on conditional logic
- Many Control Options Control of this device can be via a combination of methods, eg. serial control port, relay contacts, push button wall stations, infrared receivers and time clocks
- **Simple Installation** Designed to be installed adjacent to, or inside fixture housing



To reduce the risk of fire or electric shock, do not expose this device to rain or moisture. Do not energise unless the front cover is in place. This device must be earthed. Installation, programming and maintenance must be carried out by qualified personnel.

**Read Instructions** – We recommend that you read this Instruction Manual prior to commencement of installation.

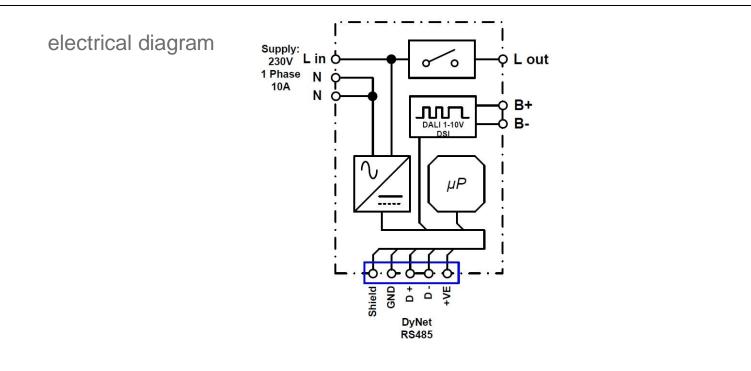
**Manual Override Switches** - These switches do not provide permanent isolation. Isolate at the supply before performing work on load circuits.

**Special Programming** – This device will only operate in basic modes unless programmed via a computer. If programming is required, contact your local agent for details. Once the data cable is connected to the devices, the factory default settings will allow any control panel to operate all channels in all controllers.

**Power Sources** – This device should only be operated from the type of supply specified on the front cover. This device *must* be earthed. **Switched Output Circuits** – The load on a circuit should not exceed

the specified capacity of 10A. **Mounting Location** – Install in a dry, well-ventilated location. Controllers may emit some mechanical noise. Take this into account when deciding the mounting location.

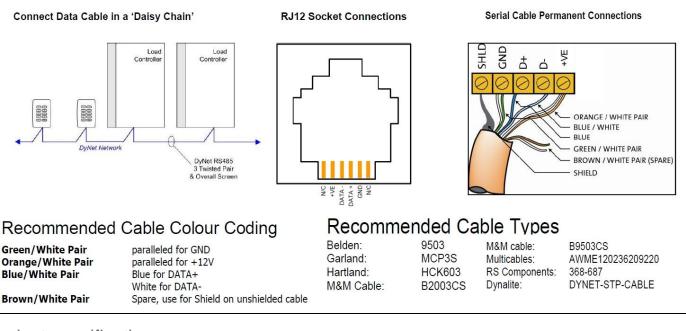
**Data Cable** – Use screened, stranded RS485 data cable with three twisted pairs. Segregate from mains cables by 300mm minimum. Connect devices in a 'daisy chain'. A data cable that is connected to an energised device is live. Do not cut or terminate live data cables.



# installation steps

- 1. Mount the device adjacent to, or inside fixture housing.
- Calculate loads to ensure the switched output is not overloaded, the maximum loading of this device is: Maximum Switched Channel Load: 10A 230V AC
  Connect load cables to each channel. Note that this device must have an individual supply circuit for each channel. The supply circuits can be on any phase. Note that loads must have a Neutral, Delta wiring is not supported.
- Calculate the control circuit to ensure it is not overloaded, the maximum control capacity of this device is: DALI Ballasts and transformers: 5 0-10V: 10mA source or 20mA sink DSI Ballasts and transformers: 15 Connect the ballast control cable from the B+ and B- terminals.
- 4. Connect a single phase 10A feed to the supply terminals. This device must be earthed.
- 5. Connect data cables to the device as per diagrams below.

## **Connecting Data Cable**



### product specifications

Control Supply:	230V ±14% 50/60Hz single phase at 10A
Load Outputs:	1 x Switched Output rated at 10A (inductive)
	Wiring topology: 1 Phase & Neutral, Delta not supported
Switching Device:	Relay – 12A 230V AC (inductive) 120A Surge.
Supply Terminals:	1 x L in, 1 x Neutral 1 x Earth, up to 1 x 4mm <sup>2</sup> cable per terminal
Load Terminals:	1 x L out, up to 1 x 4mm <sup>2</sup> cable per terminal
IO:	1 x RS485 DyNet serial port
DyNet DC Supply +VE:	120mA (supply for approx 6 panels)
Presets:	170
Programmable Logic:	8 Tasks,
Compliance:	CE, C-Tick
Ambient Temperature:	0°C - 50°C Ambient temperature, 0% - 90% RH non-condensing
Construction:	ABS Plastic
Dimensions:	L 185mm x W 44mm x D 38mm
Weight:	0.19Kg