

DDLE6RC202

6 x 2A Leading Edge Dimmer &
2 x 2A Relay controller
Instruction Manual



Features

- **Single Phase Supply** - 1 phase at 16A
- **6 x 2A Leading Edge Dimming** – Suitable for use with incandescent, low voltage, neon and selected fluorescent fixtures.
- **2 x 2A Switched output** – Suitable for all 2A switching loads.
- **Overload Protection** – Each pair of channels is protected by a replaceable 6.3A time delay M205 fuse.
- **Powerful Internal PLC** - Custom scripts can be written to provide process control based on conditional logic.
- **Dry Contact Interface** - An Auxiliary dry contact interface is provided. The factory settings will cause this input to transmit network identification information.
- **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** - DIN Rail mount facilitates installation. All connection terminals are accessible without disassembly.
- **Rear Lit Keypad** – (DDLE6RC202-MO version only) Rear lit keypad provides status indication and local control of all channels. Features



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.

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.

Check Connections – Tighten all load-carrying screw connections, as vibrations from transport can cause terminal block screws to become loose.

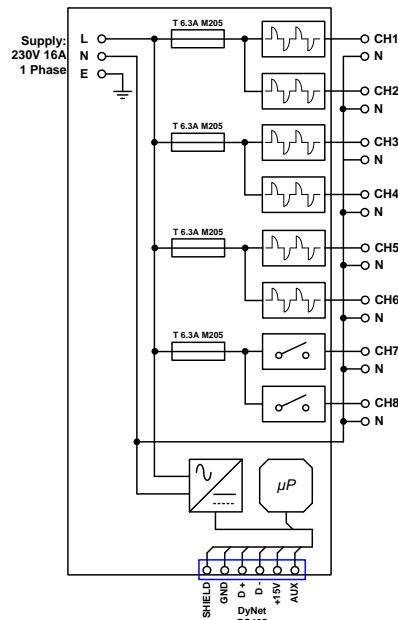
Power Sources – This device should only be operated from the type of supply specified on the front cover. This device *must* be earthed.

Output Circuits – The load on a circuit should not exceed the specified per channel capacity of 2 Amps.

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.

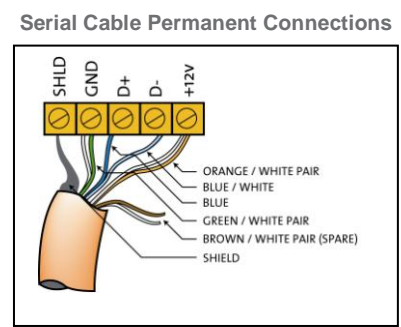
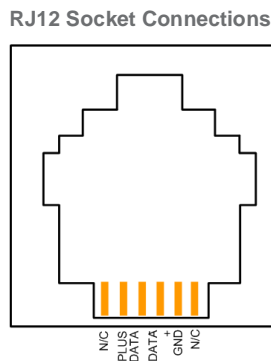
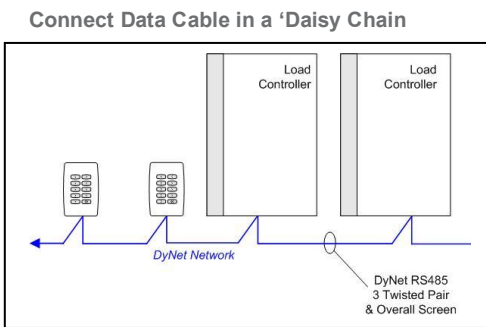
electrical diagram



Installation steps

1. Mount the device on a DIN rail inside an approved enclosure.
2. Calculate loads to ensure any channels are not overloaded, then connect loads to the output channels. The maximum loading of this device is as follows:
 - Maximum channel load: 2 Amps
 - Maximum device load: 16 Amps
 A derating factor may need to be applied if installed in small sealed switchboards, or when multiple controllers are installed in a single non ventilated switchboard, contact your dealer for details.
3. Channels 1 – 6 are for leading edge dimmed compatible loads only. 2A per channel
Channels 7 – 8 are switching channel suitable of any load of 2A
4. Connect a single phase 16A feed to the supply terminals. This device must be earthed.
5. Connect data cables to the device as per diagrams below.
6. If the Auxiliary input is to be used, connect a dry contact device in between the AUX and GND terminals. Keep cable runs between the DDLE6RC202 and the dry contacts under two metres. The function of the Auxiliary input will need to be programmed at the time of commissioning.

Connecting data cable



recommended cable colour coding

Green/White Pair	paralleled for GND
Orange/White Pair	paralleled for +12V
Blue/White Pair	Blue for DATA+
	White for DATA-
Brown/White Pair	Spare, or parallel for Shield when using unshielded cable

recommended cable types

Belden:	9503	M&M Cable:	B9503CS
Dynalite	DYNET-STP-CABLE	Multicables:	AW/ME120236209220
Garland:	MCP3S	RS Components:	368-687
Hartland:	HCK603		
M&M Cable:	B2003CS		

product specifications

Supply:	230V \pm 14% 50/60Hz Single Phase at 16A
Control Outputs:	6 x Leading Edge dimmed outputs at 2A. 2 x Switched outputs. Maximum device load of 16A
Overload Protection:	Each pair of channels protected by a 6.3A time delay M205 fuse
Regulating Device:	Triac – 20A, 600V
Switching Device:	Relay – 10A, 250VAC
Supply Terminals:	Line, Neutral, Earth. 2 x 2.5mm ² or 1 x 4mm ² conductor size
Output Terminals:	Line, Neutral for each channel, 2 x 2.5mm ² or 1 x 4mm ² conductor size
Control Inputs:	1 x RS485 DyNet/DMX512 serial port, 1 x AUX programmable dry contact input
DyNet DC Supply:	120mA
Presets:	170
Compliance:	CE, C-Tick
Ambient Temperature:	0° to 40°C ambient temperature, 0% to 95% RH non condensing
Construction:	ABS DIN Rail enclosure (12 unit)
Dimensions:	H 93mm x W 211mm x D 75mm
Packed Weight:	0.94Kg