

DDBC400 HF ballast controller

The DDBC400 is designed to control 1-10V and DSI high frequency fluorescent ballasts and has the facility to also control dimmed and switched loads. The DDBC400 has two output modules. One is fixed as a 4 channel HF ballast controller that can be configured for 1-10V or DSI operation. The other output module is a plug-in type which can control a variety of loads, simply by selecting an appropriate output module. The plug-in modules also facilitate ease of servicing. The device is DIN rail mountable, designed to be installed in a switchboard, optionally next to circuit breakers feeding the circuits to be controlled. The DDBC400 can operate as a stand-alone unit or as part of an integrated system when connected to a DyNet network.



technical data

Supply

230V 50/60Hz single phase & neutral at 5A

Outputs

Module 1: User definable
Module 2: 4 x 1-10V and DSI HF ballast control

Available output modules:

LSDM401 – 4 x 2A leading edge dimmer module, 5A max module load

LSRM401 – 4 x 2A relay module, 5A max module load (resistive) relay contacts TV8 rated

LSDM105 – 1 x 5A leading edge dimmer module

LSFCM202 – 2 x ceiling fan (400VA max per fan) 3 speed control module

Power Conditioning (dimmer modules)

- Regulated outputs
- Over voltage protection
- Surge protection
- Brownout/Sag protection
- Spike protection
- Soft start
- 16 bit fade resolution (65535 steps)

Control Inputs

1 x RS485 DyNet serial port
1 x AUX programmable dry contact input

User Controls

Service Switch
Diagnostic LED

Internal Controls

365 day Time Clock
Inbuilt Programmable Logic Controller

DyNet DC Supply

50mA (supply for approx. 2.5 Smart Panels)

Preset Scenes

170

Diagnostic Functions*

Circuit run time tracking on each channel
Device Online/Offline status

* DLight, DTK600 Touch Screen or BAS interface is required for displaying and analysing diagnostic data.

Supply Terminals

Line, Neutral, Earth
2 x 2.5mm² or 1 x 4mm² conductor size

Output Terminals

Mains – Line, Neutral for channels 1-4,
2 x 2.5mm² or 1 x 4mm² conductor size

Control – 0V/DSI, +V, DSI for channels 5-8, 1 x 2.5mm² conductor size

Operating Environment

0° to 40°C ambient temperature
0% to 95% RH non condensing

Compliance

CE, C-Tick

Enclosure

ABS DIN Rail enclosure (12 unit)

Dimensions

H 86mm x W 209mm x D 66mm

Weight

Packed weight 0.67kg



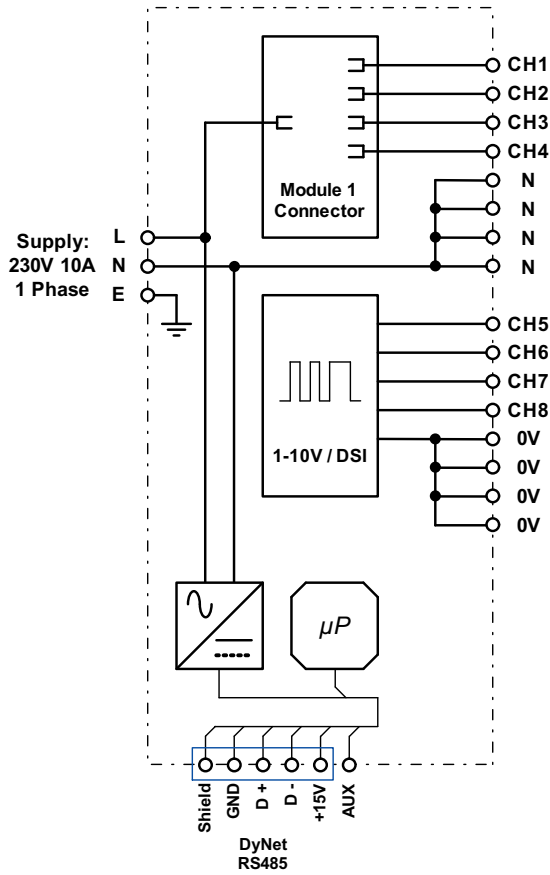
load compatibility

Incandescent
Iron core transformers
1-10V high frequency fluorescent ballasts
Leading edge electronic transformers

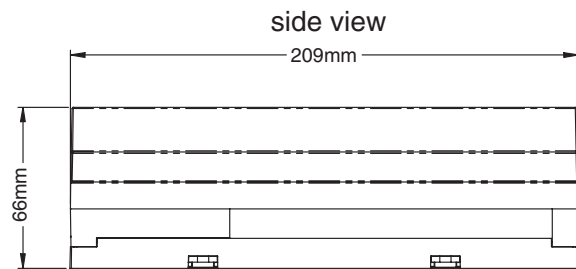
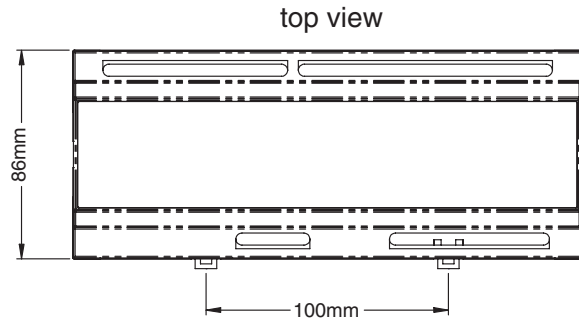
Switched loads up to 2A
DSI high frequency fluorescent ballasts
Capacitance controlled ceiling fans

DDBC400 HF ballast controller

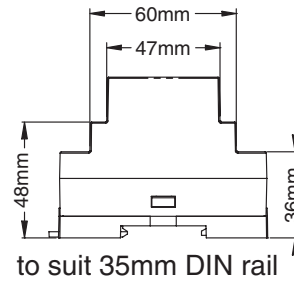
electrical diagram



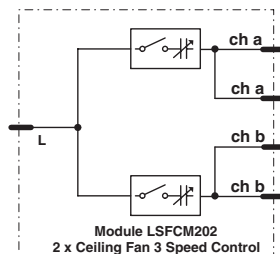
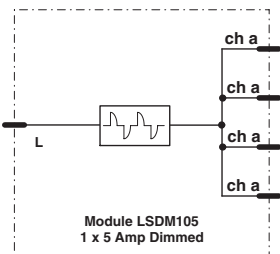
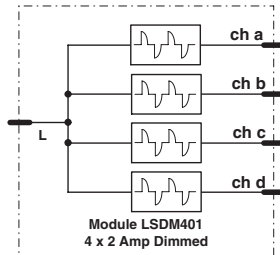
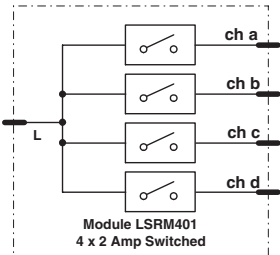
mounting dimensions



end view



module electrical diagrams



for further information contact:

