Opti Lite - Data Sheet

Rev 10.09.2024

OPTI Lite - Optimized for success

P5 Opti Lite has been developed with total flexibility and cost-effectiveness in mind and will revolutionize the way projects are managed.

The outputs of Opti Lite units are tailor-made. You don’t have to pay for unused channels any more. Opti Light is the ultimate approach to small and multi-dwelling unit projects.

OPTI Lite is basically a 4 in 1 FutureNow (the established product range by P5) with more power and resources. You no longer have to buy a different box for each function. You can combine four different functions in a single box. For example, you can use a single OPTI Lite unit to control a few on/off lights, RGB LED lighting, a blind and even have digital inputs for sensors/manual control or activating macros/scenes.

The OPTI Lite main board has 16 digital inputs and slots for 4 Output Boards.

OPTI Lite comes with the Output Boards in place so you must specify the type of boards at the time of the order.

Main features

Scalability

- Modular 4 in 1
- Cost effective
- No more wasted channels
- No more wasted space
- Ideal for MDU projects (a large number of the same small systems)

Flexibility

- 16 digital inputs on the mainboard
- Modular hardware design
- Tailor-made outputs by combining various types of output boards
- Output functions triggered by input events

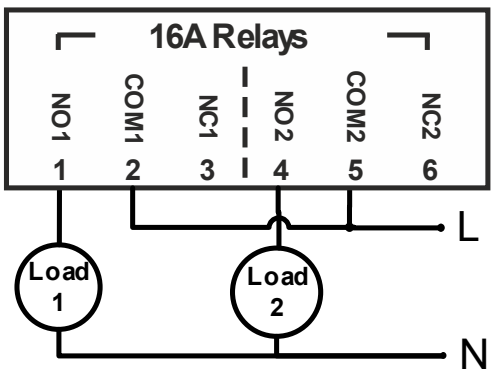
Simplicity

- No coding needed

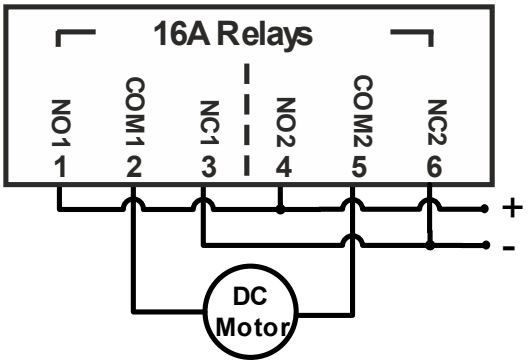
Output modules

2x16A dry contacts

2 relays with NO/NC contacts. It can also be used for DC motor control.

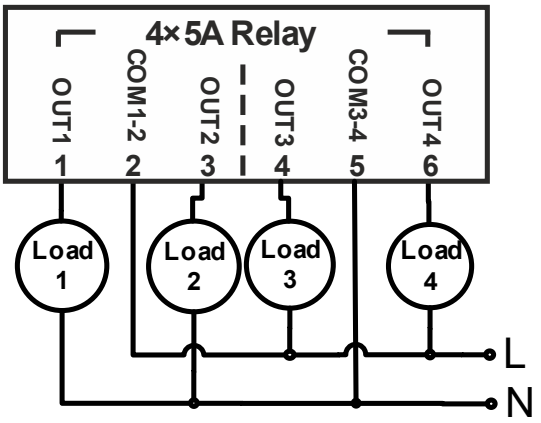


DC motor control connections



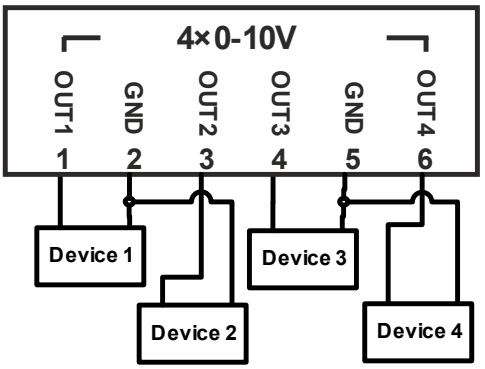
4x5A dry contacts

4 relays with NO contacts



4x0-10V outputs

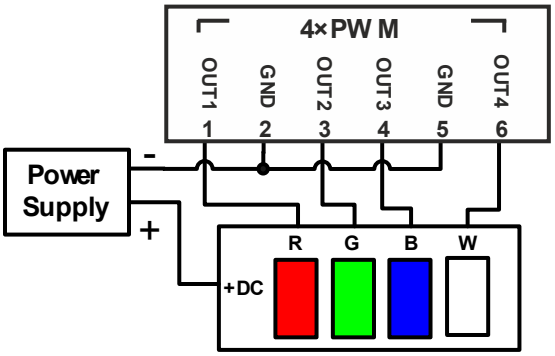
4 channel 0-10V voltage outputs



4xPWM outputs

4 channel PWM outputs for LED dimming. Single colour or RGB.

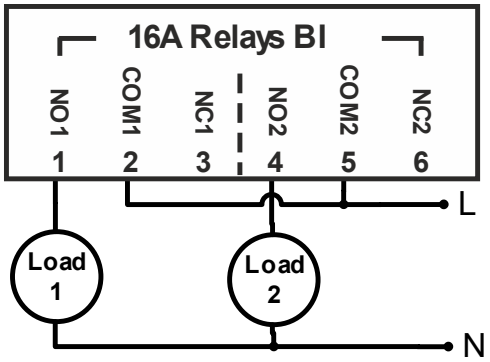
Multiple Power supplies can be used (12V-48V)



2x16A dry contacts using bi-stable relays

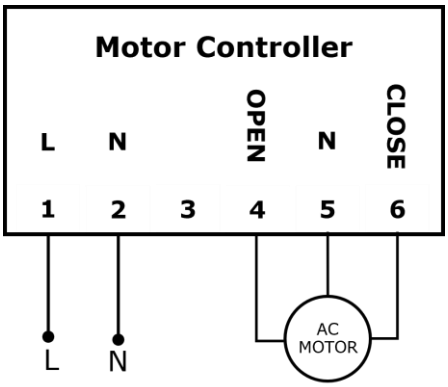
2 channel NO/NC relays

They are latched in both positions and only use power to switch over.



1xSH Motor controller

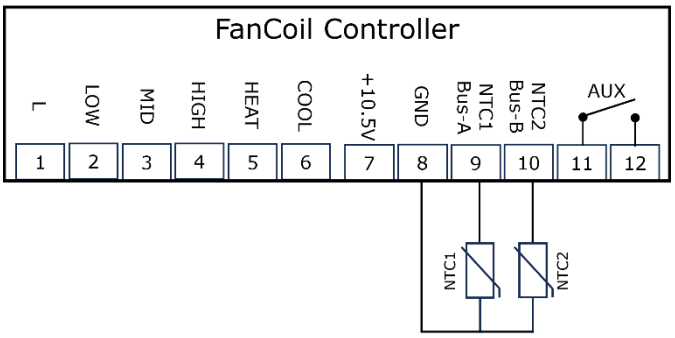
One channel motor controller for AC motors



1xFCC NTC FanCoil Controller

One FanCoil Controller for cooling and heating, 3-speed fan (low, mid, high) and two NTC temperature sensors.

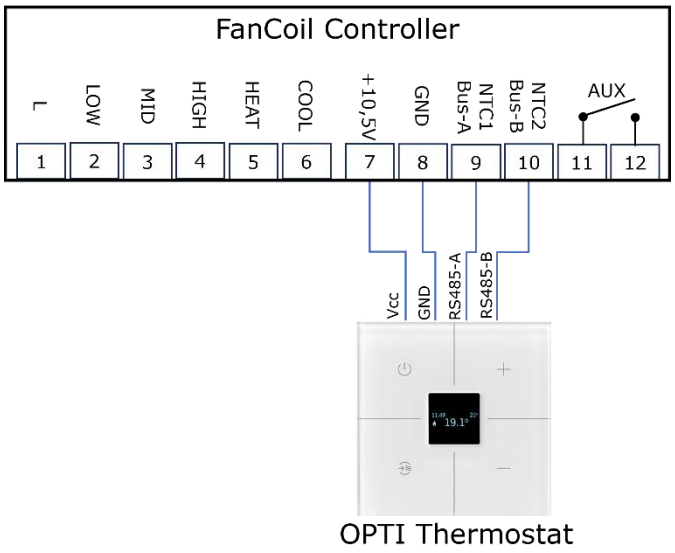
The FCC output module requires two OPTI slots.



1xFCC TS FanCoil Controller

One FanCoil Controller for cooling and heating, 3-speed fan (low, mid, high), integrated with the OPTI Thermostat.

The FCC output module requires two OPTI slots.



OPTI Thermostat

TECHNICAL SPECIFICATIONS

Power Requirements	
	12 – 24V DC
Input parameters	
Contact closure inputs	
Maximum resistance	< 10Ω
Output Modules	
One phase per output module	
2x16A Output module	
Type	2 x SPDT NO, NC, dry contacts
Load (AC)	250V max. 16A for resistive (cos(fi)=1) load 250V max. 8A for inductive (cos(fi)=0.4) load
Load (DC)	max 16A@24V
Power Consumption	max 1.5W
4x5A Output module	
Type	4 x SPDT NO, dry contacts
Load (AC)	250V max. 5A for resistive (cos(fi)=1) load 250V max. 2A for inductive (cos(fi)=0.4) load
Load (DC)	max 5A@24V
Power Consumption	max 1.5W
0-10V Output module	
Load	max. 20mA/Channel
PWM Output module	
Type	PWM type LED dimmer outputs
Voltage	12 – 48 V DC
Load/Ch	max 8A/channel
Load/board	max 24A/board
Power Consumption	max 3.5W
2x16A.BI Output module	
Type	2 x SPDT NO, NC, dry contacts
Load (AC) for NO	250V max. 16A for resistive (cos(fi)=1) load 250V max. 8A for inductive (cos(fi)=0.4) load
Load (AC) for NC	250V max. 5A for resistive (cos(fi)=1) load
Load (DC)	max 8A@24V
Power Consumption	0W
1xSH Motor controller module	
Type	relay outputs for direction control
Max voltage	250V AC
Load	Max. 4A for inductive (cos(fi)=0.4) load
Power Consumption	max 1.5W

FanCoil Controller NTC	
Type	FanCoil Controller for NTC sensors
Load	6 x NO Relay Outputs max. 5A @ 230V AC each (Heating, Cooling, Low, Medium, High, Auxiliary)
Power Consumption	1,3W (max.: 1,5W)
Number of temperature sensors	2 NTC temperature sensors
Supported sensors	NTC10K-B3950, BAPI-10k-2, NTC10K-B4100, NTC10K-B3435
Temperature accuracy	0.1°C for temperature sensor NTC1 0.1°C or 1°C for temperature sensor NTC2
FanCoil Controller TS	
Type	FanCoil Controller - works with the OPTI Thermostat
Load	6 x NO Relay Outputs max. 5A @ 230V AC each (Heating, Cooling, Low, Medium, High, Auxiliary)
Power Consumption	1,8W (max.: 2,5W)
Temperature sensor	TMP100 temperature sensor (part of the OPTI Thermostat)
Connectors	
Input Terminals	1.5mm² screw terminals
Output Terminals	2.5mm² screw terminals
LAN (100Mb/s)	RJ45 Ethernet Connector
Environmental	
Operating Temperature	0 ºC – 40 ºC (32 ºF – 104 ºF)
Storage Temperature	-20 ºC – 60 ºC (-4 ºF – 140 ºF)
Humidity	Up to 93% (Non condensing)
Physical	
Dimensions (H x W x D)	157 mm x 86 mm x 57 mm (9 DIN unit width)
Weight	max 0.4 kg
Installation	Standard DIN Rail Mount

Approvals	Package Content	Warranty
CE	Opti Lite	2 years

REFERENCES

FNIP Manager (Registration required on www.p5automation.com)

(Please email us at support@p5.hu to request the Communication Protocol Description)

CONTACT DETAILS

support@p5.hu

http://p5.hu/index.php/support/contact-technical-support