



The PC21B is an all new power management enclosure which has been designed to support 22 outputs, 15A with a splash proof enclosure. Our PC21B hardware is fully compatible with the previous generation of PC21 controllers (by DSS/DNA) installed on boats throughout the USA and distributed globally. This allows DSSA to design software 100% compatible with original DSS/DNA systems. The convenience of the Deutsch DRC10 40 Pin connector allows the replacement of the old PC21 controllers without changing the wiring harness. The PC21B is typically used along with one or more DSSA CANbus keypads and gateways in order to have a fully digital system on your boat.

- 12 or 24V Nominal Input Voltage
- 22 Switched Circuits - Each Rated up to 15A
- Momentary, Toggle & Timeout Functions
- Electronic Overcurrent Protection
- Input Undervoltage Lock Down

# PC21B POWERCORE

## DATA SHEET

Part No. DSS-PC21B

State of-the-art digital switching technology with attractive user-interface styling, providing designers with an extensive menu of switching solutions.

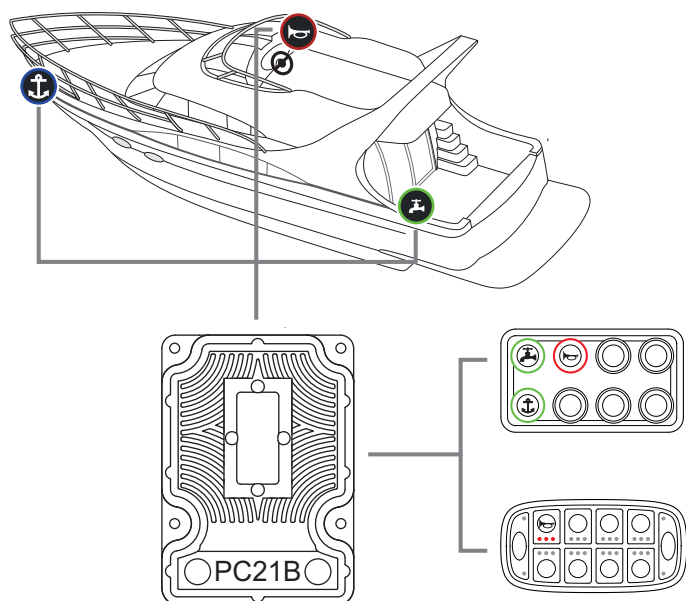


**CANbus Slave & RS-485**

[WWW.DIGITALSWITCHING.COM.AU](http://WWW.DIGITALSWITCHING.COM.AU)

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## TECHNICAL SCHEMES



## ELECTRICAL FEATURES

- 150 Amp TTL PME input current carrying capability
- Remote reset any output circuitry fault via keypad
- 2 Complete H-Bridge circuits for driving reversible motors
- Parallel output capability to increase current rating

## MECHANICAL

|                               |   |
|-------------------------------|---|
| Connector<br>Mating Connector | Deutsch DRC 10-40P-A004<br>Deutsch DRC 16-40S                                     |
| Housing                       | Aluminum Ab46100 Anodic Oxidation +<br>Powder-Coating + Zinc-Coated Bronze ZnCu20 |
| Seal                          | EPDM Gasket   |
| PC Board                      | 1.6mm Thick, Nema Grade FR-4, Double Clad<br>with 3oz Copper                      |
| Power Studs                   | CuZn20 UNC#14-20  |

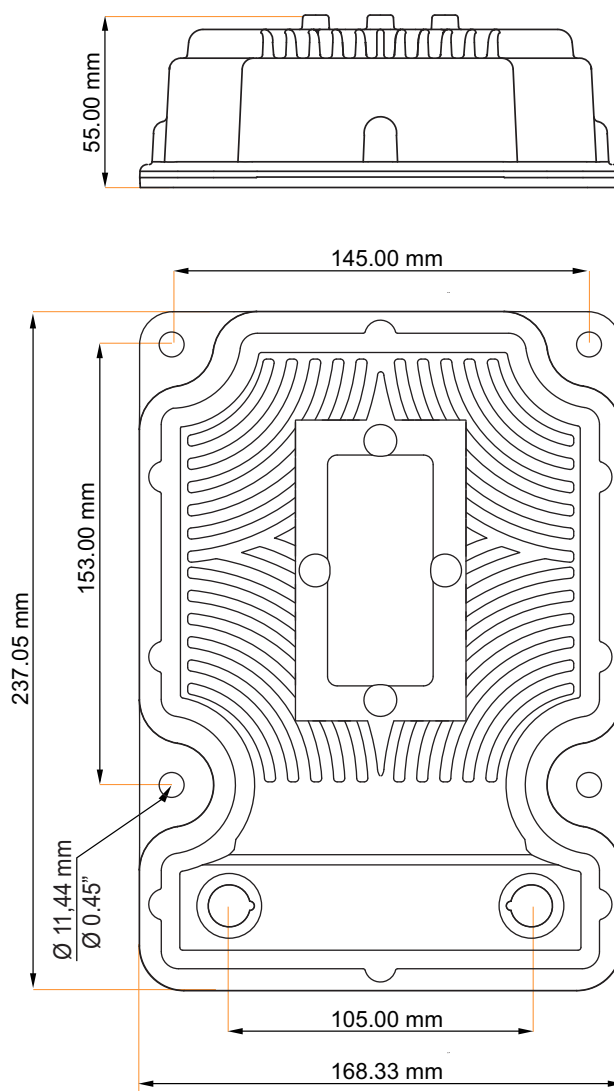
## ELECTRICAL

|                               |   |
|-------------------------------|---|
| Supply Voltage                | 12V & 24V Nominal Voltage (8-32VDC)                               |
| Standby Current               | <30mA per PME   |
| Communication Bus             | CANbus Slave, RS-485 Between Keypad &<br>PME                      |
| Circuit Protection            | Electronic Overcurrent Protection &<br>Automotive Mini Blade Fuse |
| Load Current<br>Input Current | Max 15A<br>Max 150A   |

## ENVIRONMENTAL

|                           |                            |
|---------------------------|----------------------------|
| Operating Temperature     | -20°C to +85°C             |
| Storage Temperature       | -40°C to +85°C             |
| Humidity                  | 0 to 98% (No Condensation) |
| Ingress Protection Rating | Splashproof                |

## DIMENSIONS



## OTHER FEATURES

|                               |                                  |
|-------------------------------|----------------------------------|
| Circuits                      | 22                               |
| Size MM                       | 237 x 168 x 55                   |
| Low Voltage Sense & Lockdown  | Optional                         |
| Field Re-programmable         | Optional                         |
| Remote Current Trip Reset     | Standard on All Outputs          |
| System Reset                  | Optional                         |
| Status Indicator              | Standard                         |
| Pull Down                     | 4 Outputs                        |
| "H" Bridge Capability         | 2 Complete "H" Bridges Available |
| Level Sense Input             | 4 Inputs                         |
| External Status Communication | Optional                         |
| Dimming /PMW Features         | Available on 3 Outputs           |
| Circuit Status Monitoring     | Optional                         |
| Low Side Driver               | 2 Options                        |
| Weight                        | 1174g                            |