

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.

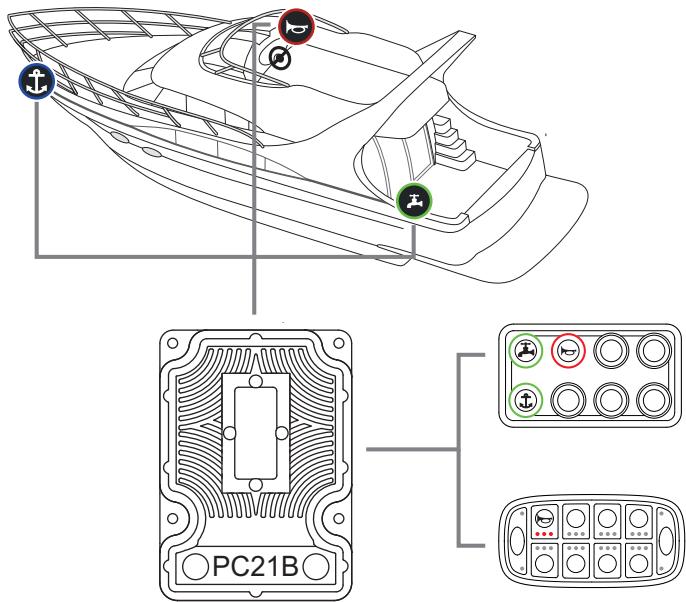


**CANbus Slave & RS-485**

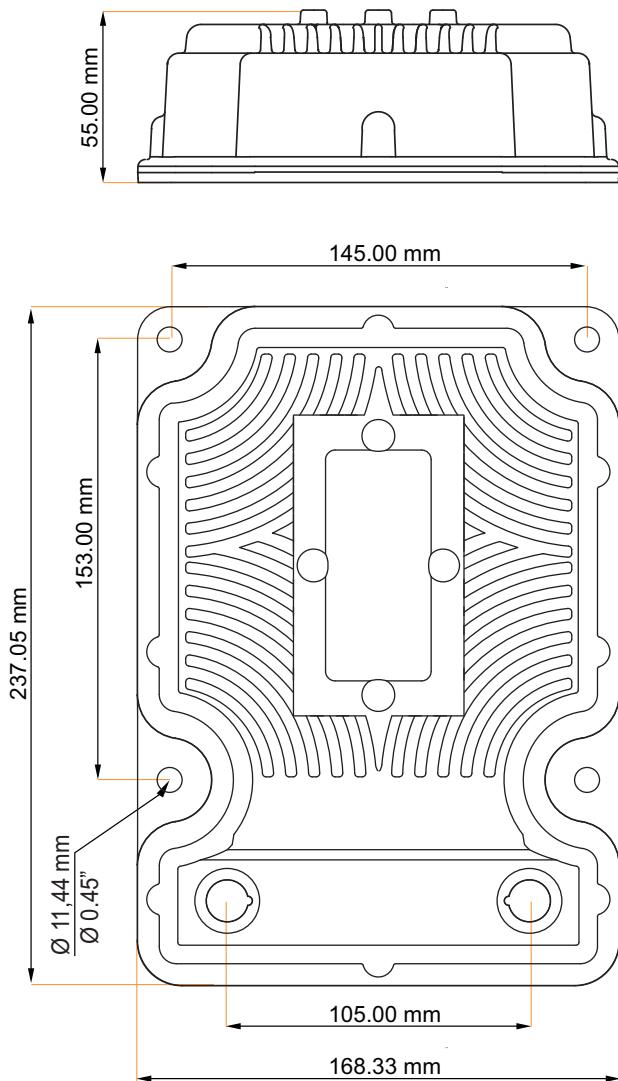
[WWW.DIGITALSWITCHING.COM.AU](http://WWW.DIGITALSWITCHING.COM.AU)

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## TECHNICAL SCHEMES



## DIMENSIONS



## 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 Mating Connector	Deutsch DRC 10-40P-A004 Deutsch DRC 16-40S
Housing	Aluminum Ab46100 Anodic Oxidation + Powder-Coating + Zinc-Coated Bronze ZnCu20
Seal	EPDM Gasket
PC Board	1.6mm Thick, Nema Grade FR-4, Double Clad 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 & PME
Circuit Protection	Electronic Overcurrent Protection & Automotive Mini Blade Fuse
Load Current Input Current	Max 15A 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

## 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