

# Digital Switching



Part No. DSS-PC21

## PowerCore 21

### INTELLIGENT POWER

- Voltage Protection.
- 21 Outputs (20Amps).
- Over-current Protection.
- RS485/J1939/CAN Communication.
- Support OmniBus Protocol.

### FEATURES

The PowerCore 21 is the intelligence behind the Digital Switching System.

Power Intelligence (Pi) Series is a digital switching solution developed for today's automotive, marine, mining and RV transportation markets.

It combines state of-the-art digital switching technology with an attractive user-interface styling to provide designers with an extensive and exciting menu of switching solutions.

The PowerCore 21 responds when it receives switch requests from the keypads or interfaces and then processes these commands based on the current system status. The response to a switch request may be an activation or deactivation of a circuit or the start of a timed function.



## Features

The PowerCore 21 features no moving parts while being slim & compact. With 21 outputs up to 20 Amps each. Along with the outputs it also has up to 4 optional inputs. A robust design incorporating a 40 pin Deutsch connector.

The clever design means the software is field programable and ungradable.

The PowerCore 21 is a solid state device because it uses solid state relays for the switching of loads and over-current protection. There are no mechanical components.

Each PowerCore 21 is capable of controlling 21 switched/constant outputs. A flashing indicator at the keypad indicates a circuit fault. Simply pressing and holding the corresponding indicator resets the circuit.

The PowerCore 21 can be programmed in the field via any certified technician with their laptop. Most customers request the PowerCore 21 to be pre-programmed prior to despatch.

The Digital Switching System technology is an ideal choice for those customers who desire unlimited flexibility and versatility.

The flexibility realises itself in that a typical system can have any number of keypads and PC21's. Versatility is achieved because the DSS technology is micro-processor based and it can be programmed to perform a virtually limitless array of functions. In addition, DSS has refined the technology so that semi-custom keypad/PC21 system packages can be created to fit virtually every cost budget.

Finally it is important to remember to factor in the savings realised from reduced manufacturing and labour costs as compared to a discreet switch solution.

## Specifications

<b>Voltage</b>	<b>9 - 28 Volts DC</b>
<b>Max Current per circuit</b>	<b>20A</b>
<b>Total Circuits</b>	<b>21</b>
<b>Max Current Total</b>	<b>60A</b>
<b>PowerCore Connector</b>	<b>Deutsch DRC13-40P-A004</b>
<b>Mating Connector</b>	<b>Deutsch DRC16-40S</b>
<b>IP Rating</b>	<b>IP67</b>
<b>Operating Temperature</b>	<b>-40 to +85C</b>
<b>Communication</b>	<b>RS-485 (Proprietary)</b>
<b>Standby current</b>	<b>Less than 30mA</b>
<b>Connection Power Studs</b>	<b>1/4 - 20 Phosphor bronze, electroplated bright tin</b>
<b>UV protection</b>	<b>UBVB 400 Hours</b>
<b>Size</b>	<b>168x257x35mm</b>
<b>Weight</b>	<b>950g</b>
<b>Approvals</b>	<b>CE</b>
<b>Warranty</b>	<b>12 months limited</b>
<b>Material</b>	<b>Black ABS Plastic</b>

\*Specifications may change without notice.