

Digital Switching



PowerCore 21

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.

(Part No. DSS-PCX021)

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 upgradeable.

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

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

*Specifications may change without notice.

