DSSA
DIGITAL SWITCHING SYSTEMS AUSTRALIA

DSSA provide an extensive range of standard keypads that allows integrators and system designers to build more optimized solutions. We also have fully customised keypads for production volumes that allow for both customer's design and functionality requirements.

The NEW POWERKEY ULTIMATE 1800M keypad provides hassle free control and customisation literally at your fingertips.
The PKU1800M is easily reconfigurable, readdressable and relegendable.
Requiring only a laptop or PC connection for reprogramming.

STANDARD FEATURES:
➤ Brighter LED's
➤ LED Backlit Icons
➤ CRM, Designer, ECS Firmware Options
➤ Sealed IP68
➤ Optional Inserts

POWERKEY ULTIMATE 1800M

E5899

FLEXIBLE - SMART - RUGGERED

CANopen / J1939 / NMEA 2000

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STANDARD FEATURES

➤ Supply voltage 12-24v
➤ Relegendable buttons
➤ Multicolour indicator rings
➤ Vertical or horizontal mount
➤ Improved thermal dissipation
➤ Full colour LED indicators - including pure white
➤ Standard and custom legends
➤ Added overload feedback on output drives to detect short circuit or over current events
➤ Significant power reductions - PKU mini consumes with all LED's active 70 mA @12v
➤ Simplified CAN messaging using our CANconnect software to control multiple LED's within a single message

DESIGNER FIRMWARE FEATURES

➤ 256 step brightness control for each colour
➤ New LED effects (blink, pulse, spin, ripple, split)
➤ ON/OFF, momentary, toggle, scroll/step functions programmable for each key
➤ Autonomous operation (key press causes LED to change state without feedback from external device)
➤ NMEA 2000 bus compliant (support ISO requests, address claim, binary status 127501 and binary control 127502 messages)

PROTOCOLS & ACCESSORIES

➤ Free Software Utility
➤ Connector Options Include: Deutsch, Molex & more

MECHANICAL

Connector	Deutsch DT04-4P, Molex 19418-0004, Micro-C
Switch Life	3 Million Operations
Mechanical Shock	X, Y, Z 50Gs 11ms
Vibration	X, Y, Z 10 - 150Hz 0.15mm amp
Mounting Studs	#10-32 CDS-510 phosphor bronze, electroplated bright tin
Keypad	Silicone rubber with polyurethane hardcoat

ELECTRICAL

Supply Voltage	12-24V Nominal 8-32V
Standby Current	<50mA
Communication Bus	CANopen or J1939

ENVIRONMENTAL

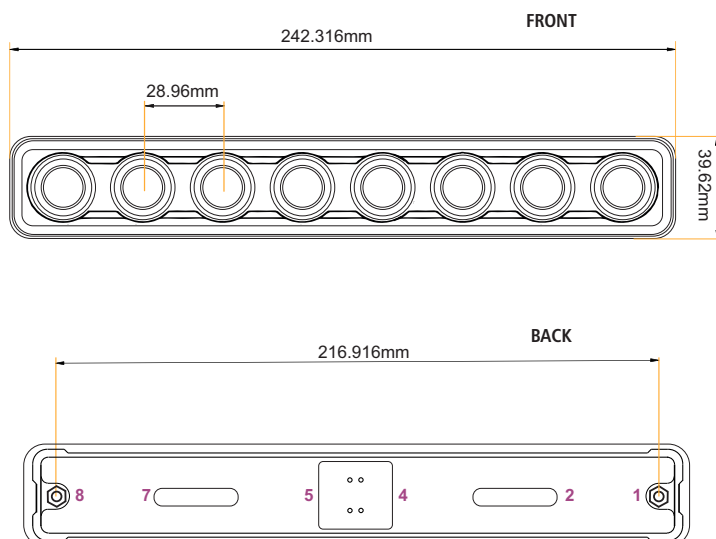| Operating Temperature	-40°C to +85°C
Storage Temperature	-40°C to +85°C
Thermal Shock	-40° to +72°C @4°C/Min
Humidity	0 to 98% (No Condensation)
UV Protection / Salt Spray	UVB 400 hours / Per ASTMB117
Chemical Resistance	EET, Engine Cleaner, Isopropyl Alcohol, Suntan Lotion, Multi-Purpose Cleaner, Orange Citrus Cleaner
Ingress Protection Rating	IP68 / NEMA 6

OTHER FEATURES

Size MM	242.31 x 39.62 x 20.83
Weight	188.66g

MOUNT ON A FLAT SURFACE ONLY

Part Number:	DSS-PKU1800M
Nut Size*:	10-32 UNF S/S
Washer Sizes:	M5 Spring Washer S/S, M5 Flat Washer S/S
Torque Maximum:	7 +/- 1 in. lbs

* DO NOT USE NYLOC NUTS

DIMENSIONS

FRONT

242.316mm

28.96mm

39.62mm

BACK

216.916mm

8 7 5 4 2 1

* Diagrams are NOT to Scale

SIDE

20.83mm

16.50mm

MOUNTING STUDS

Connection Wire Lengths
From PCB: 304.8mm

CAN KEYPAD PIN-OUT
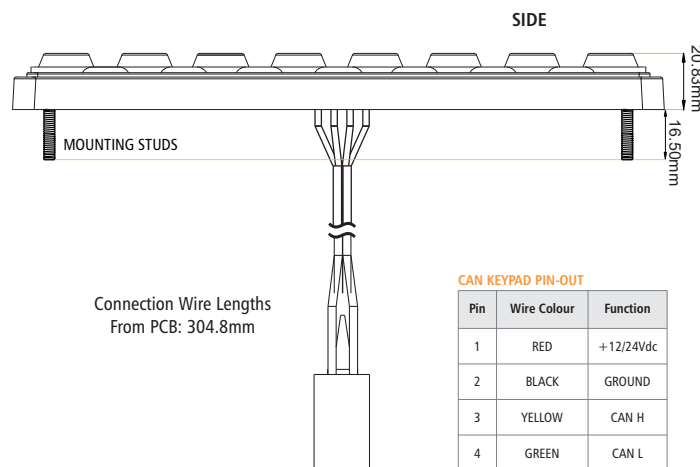
Pin	Wire Colour	Function
1	RED	+12/24Vdc
2	BLACK	GROUND
3	YELLOW	CAN H
4	GREEN	CAN L