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 POWERKEY 1000 offers a compact and sleek design while giving OEM's the opportunity to custom laser etch their design and logo onto the keypad at a minimal cost.

With waterproof, soft touch rubber buttons, over 3 million operations and featuring "Plug and Play" installation the POWERKEY 1000 is the versatile choice for all your needs.

STANDARD FEATURES:

➤ Low Profile & Compact
➤ UV Protected
➤ Entire Keypad has Laser Etched Icons & Text
➤ 10 Rubber Molded Buttons
➤ Sealed IP68 (Rated)

POWERKEY 1000

E5899

FLEXIBLE - SMART - RUGGED

CANopen / J1939 / RS-485

STANDARD FEATURES

- Supply voltage 12-24v
- Pad print
- 28 RGB indicators
- Improved thermal dissipation
- Vertical or Horizontal mount
- Flush mount or Horizontal mount
- 8 centre keys each with 3 RGB indicators
- 2 side keys with 2 RGB indicators (colours controlled by CAN message)
- Each key has bright white backlighting LEDs with global intensity dimming
- CAN J1939 / RS-485 Protocol Compatible
- CAN & RS-485 Keypad Addresses
- CANopen Communications Protocol

HARDWARE & SOFTWARE FEATURES

- ON/OFF, Momentary, Toggle, Scroll/Step functions programmable for each key
- Legacy firmware support for previous installations
- ECS firmware support for previous installations using C based scripting language
- CRM firmware for simplified CAN configuration using DSSA software utilities
- Available in fixed legends
- Over 1000 icons available
- Custom painting of individual button regions

PROTOCOLS & ACCESSORIES

- Free Software Utility
- Connector Options: Deutsch, Amphenol or M12

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	12-24VDC Nominal 8-32VDC
Standby Current	<50mA
Communication Bus	RS-485, CANopen or J1939

ENVIRONMENTAL

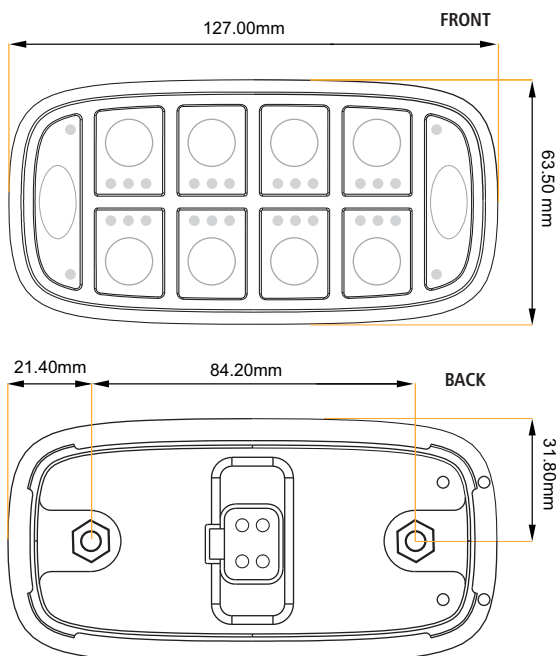| Operating Temperature	-40°C to +85°C
Storage Temperature	-40°C to +85°C
Thermal Shock	-40° to +72°C @4°C/Min
Humidity	0 to 98% (No Condensation)
UV Protection / Salt Spray	UVB 400 hours / Per ASTMB117
Chemical Resistance	DEET, Engine Cleaner, Isopropyl Alcohol, Suntan Lotion, Multi-Purpose Cleaner
Ingress Protection Rating	IP67 / NEMA 6

OTHER FEATURES

Size MM	127 x 63.5 x 14.9
Weight	120g

MOUNT ON A FLAT SURFACE ONLY

Part Number:	DSS-PK1000
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

127.00mm — FRONT

63.50 mm

21.40mm   84.20mm — BACK

31.80mm

SIDE   14.90mm

SIDE   17.50mm

Connection Wire Lengths
From PCB: 304.8mm
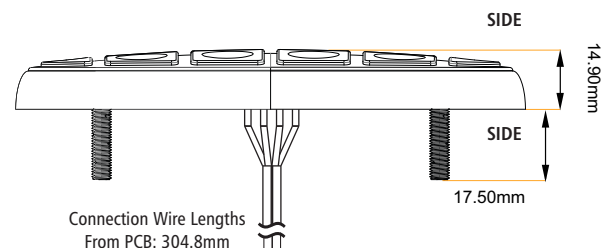
RS485 KEYPAD PIN-OUT

Pin	Wire Colour	Function
1	GREY	TxRx-
2	ORANGE	TxRx+
3	BLACK	GROUND
4	RED	+12/24 VDC

CAN KEYPAD PIN-OUT

Pin	Wire Colour	Function
1	RED	+12/24VDC
2	BLACK	GROUND
3	YELLOW	CAN H
4	GREEN	CAN L

* Diagrams are NOT to Scale