



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)



FLEXIBLE - SMART - RUGGERED

 CANopen / J1939 / RS-485

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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 |

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 ASTM B117 |
| Chemical Resistance | DEET, Engine Cleaner, Isopropyl Alcohol, Suntan Lotion, Multi-Purpose Cleaner |
| Ingress Protection Rating | IP67 / NEMA 6 |

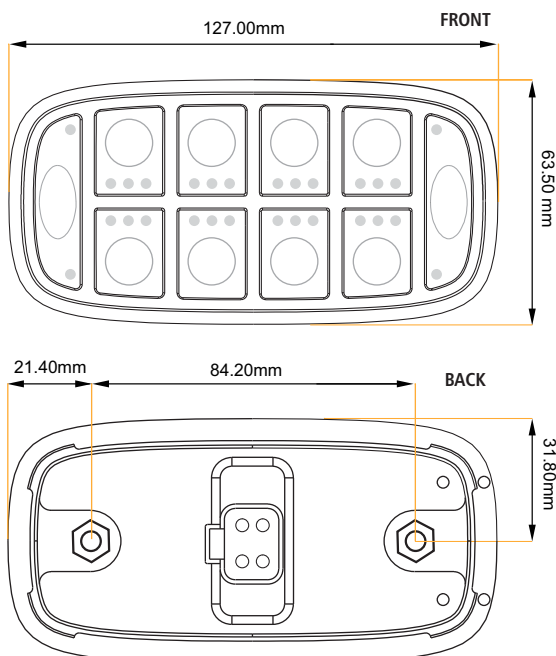
ELECTRICAL

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

OTHER FEATURES

| | |
|---------|-------------------|
| Size MM | 127 x 63.5 x 14.9 |
| Weight | 120g |

DIMENSIONS

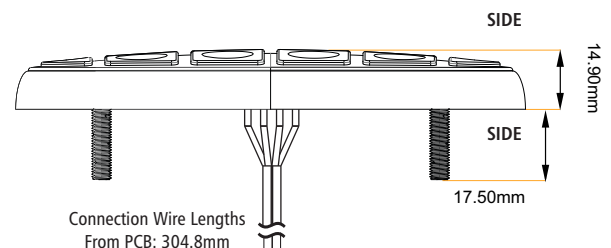


* Diagrams are NOT to Scale

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



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 |