POWERKEY PRO PKP-2300-SI MS

DESIGN YOUR OWN PROTOTYPE ONLINE

FLEXIBLE - SMART - RUGGED

PKP-2300-SI MS is a compact keypad based on CAN protocol. It comes equipped with six keys with exchangeable 15mm label inserts. The keypad is water and dust resistant, and can be installed inside or outside the cockpit. Buttons are supplied with RGB LEDs making possible to generate different colors under the label, giving the final user infinite use combinations. PowerKey PRO 2300 is heat resistant up to 70°C (158°F).

SOFTWARE FEATURES

CAN Keypad Addresses – The keypad can be programmed to recive any valid CAN address from the range.

Periodic Status Transmission – The keypad "Broadcast" feature, sends out periodically and outonomously messages indicating the pressure or release status of each button. The frequency of these messages can be adjusted in a wide range and setted via CAN.

Event Status Transmission – The keypad "On Event" feature, sends messages on the BUS, indicating a button pressure or release event. The button "On event" message is able to describe two different button uses: toggle (on/off) and latching (incremental pressures counter).

Button LED Color – User can assign different colors to the button, up to 7, sending appropriate CAN messages to the keyboard. Very usefull feature to describe outputs statuses connected on the buttons functions.

Low BUS usage – All button statuses can be contained in a single CAN ID.

HARDWARE FEATURES

Dust and water proof – Totally protected against dust. Water resistant up to 1m deep.

Customizable labels – The button label replacement system via the inserts, makes very easy the modification of keypad layout and at the same time cost saving. Motorsport dedicated labels can be viewed at blinkmarine.com, and it is also possible to order customized ones.

Membrane compensation valve – Each button is equipped with a special membrane which compensate the internal keypad pressure alleviating mechanical stresses that can be produced by variation in external temperatures.

Keypad's symmetrical design – The keypad has a rectangular design wich allows the unit to be placed easily on a support frame. Buttons are placed symmetrically in the keyboard so it also can be rotated. Is possible to couple several units.

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Icons shown on this keypad are for visual demonstration only.

STANDARD FEATURES

- Customizable labels for each key
- LED status configurable
- Vertical or horizontal mount
- Flush or front mount
- LED backlit icons
- Multicolor indicator rings
- Laser etched icons
- ON/OFF, momentary, toggle, scroll
- Hundreds of stock icons to choose from

SOFTWARE FEATURES

- Variable CAN keypad addresses
- Button color
- Periodic status transmission
- Event status transmission

OTHER BENEFITS

- Programmer's manual available to help support plug-and-play reconfigurability

SPECIFICATIONS FOR STANDARD KEYPADS

ELECTRICAL

Supply Voltage	12-24Vdc Nominal (8-32VDC)
Standby Current	<50 mA
Communication BUS	CAN
Transmission baud rate	from 124 Kb/s to 1 Mb/S

MECHANICAL	STANDARD	OPTIONAL
Connector	Deutsch DT04-4P	Deutsch DTM04-4P
Switch Life	3 million operations	
Mounting Studs	#10-32 CDA-510 phosphor bronze, electroplated bright tin	
Keypad	Silicone rubber with polyurethane hardcoat	
PC Board	1,6mm thick, Nema Grade FR-4, double clad with 1oz copper	
Operating Temperature	-40°C to +70°C	
Storage Temperature	-40°C to +85°C	
UV Protection	UVB 400 hours	
Salt Spray	Per ASTMB117	
Chemical Resistance	Deet, Engine Cleaner, Isopropyl Alcohol, Suntan Lotion, Multi-Purpose Cleaner, Orange Citrus Cleaner, Muriatic Acid	
Ingress protection Rating	IP67/NEMA6	

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Blink S.r.l.
Via Montefeltro, 6 - 20156 Milano - Italy
Tel. +39 02 3088583 - Fax +39 02 33406697
www.blinkmarine.com - info@blinkgroup.com

ACME

Authorized dealer ACME srl
Via Martiri di Cefalonia e Corfu
37014 Castelnuovo del Garda -Verona - Italy

95.00 mm

70.00 mm

GREEN= TxRx-(RS485)   ORANGE= TxRx+(RS485)
BLACK=GROUND   WHITE=CAN HIGH
RED=POWER   BLUE=CAN LOW

3   2   1

6   5   4

21.00 mm

(X2)16.30 mm

49.00 REF

#10 - 32 STUDS

185.00 mm

NOTE: ALL CONNECTION WIRES ARE THE SAME LENGTH