PKP-2500-SI

DESIGN YOUR OWN PROTOTYPE ONLINE





FLEXIBLE - SMART - RUGGED

PKP-2500-SI is a compact keypad based on CAN protocol. It comes equipped with ten keys with interchangeable 15 mm inserts. The keypad is water and dust resistant, and can be installed both inside and outside the cockpit. RGB led lights and the ease with which icons can be switched in and out make it possible for the user to customize each key in a wide range of variations.

SOFTWARE FEATURES

CAN Keypad Addresses – Assign any valid CAN address to the keypad. RS485 interface is available on request.

J1939 Address Claim Transmission – Keypads no longer have to be pre-programmed to a specific address. This enables customers that work in applications in the field without access to a GUI to use any replacement keypad on-hand. The keypad can be configured to automatically announce its address and accept a new address assignment as appropriate.

Event Status Transmission – The keypad can send messages to the BUS indicating a button press or a button release event has occurred. This confirmation allows digital systems to have the same input acknowledgements as that of the latching position of a physical switch.

Periodic Status Transmission – The keypad sends a continuous broadcast of messages indicating the press or release status of each button at that instance. The frequency of these messages can be adjusted in a wide range.

Online Set-up – An online set-up system makes it possible to select and design your own prototype, then order it directly on **blinkmarine.com**.

Periodic Heartbeat – The keypad sends a continuous broadcast of messages indicating it is functioning correctly. The frequency of these messages can be adjusted in a wide range.

CANopen Communications Protocol – Fully compliant with Device Profile 401d.

HARDWARE FEATURES

IP67/IP69K waterproof rating – Guaranteed to be dust tight and sealed against water immersion to a depth of 1 meter for up to 1 hour. The IP69K rating provides protection against high pressure water at high temperature spray downs.

UV Protected – UVB 400 hours: Keypad is highly resistant to deterioration caused by exposure to sunlight.

Customizable inserts – The replacement system for individual inserts makes modifying the keypad layout simpler and more economical. Hundreds of different stock inserts can be viewed at **blinkmarine.com**, and it is possible to order customized ones.

A membrane compensation vent which self compensate the internal pressure within the keypad, alleviating mechanical stresses that can be produced by shifts in external temperatures.

The keypad's symmetrical design and spacing between keys makes it easier to install multiple keypads alongside one another.





STANDARD FEATURES

- Reconfigurable keys
- Relegendable buttons
- LED state & status configurable ON/OFF, momentary,
- Vertical or horizontal mount
- LED backlit icons
- Multicolor indicator rings
- Laser etched icons
- toggle & scroll • Hundreds of stock icons to choose from

SOFTWARE FEATURES

- Periodic status transmission
- Heartbeat
- Address claim transmission
- Event status transmission • LED acknowledgement
- CANopen and J1939
- RS485 interface is available on request

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	RS485, CANopen, J1939	
MTBF	178005 hours (in accordance with	
	MIL-HDBK-217 – operating environment	
	ground mobile)	

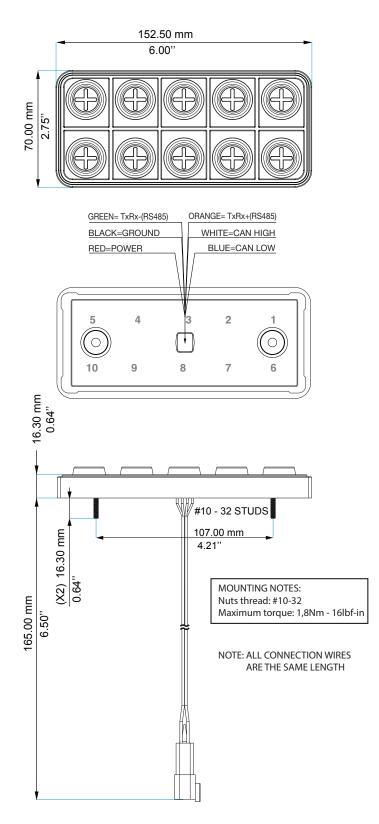
MECHANICAL

Deutsch DTO4-4P		
3 million operations		
#10-32 Steel		
Silicone rubber with polyurethane hardcoat		
1,6mm thick, Nema Grade FR-4, double		
clad with 1oz copper		
erature -40°C to +70°C		
-40°C to +85°C		
-40°C to +85°C According to table 2 of		
IS016750-4		
UVB 400 hours		
Per ASTMB117		
Deet, Engine Cleaner, Isopropyl Alcohol,		
Suntan Lotion, Multi-Purpose Cleaner,		
Orange Citrus Cleaner, Muriatic Acid		
IP67/IP69K		
200 gr (Inserts excluded)		



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CONNECTOR STANDARD PINOUT



PIN	COLOUR	FUNCTION
1	Blue	CAN L
2	White	CAN H
3	Black	Negative battery
4	Red	Vbatt. (12-24V)

The one illustrated above is the standard pinout; however, some keypads may be supplied with alternative