

PKP-2300-SI-FR



DESIGN YOUR OWN
PROTOTYPE ONLINE



CANopen
J1939



FLEXIBLE - SMART - RUGGED

PKP-2300-SI-FR is a compact keypad based on CAN protocol. It comes equipped with six keys. The keypad is water and dust resistant, and can be installed both inside and outside the cockpit. The PKP-SI-FR [full rubber] Series has a solid rubber key face instead of a removable insert. It is a production based unit where the icon design remains the same, saving installation time not having to populate inserts. The PKP-SI-FR Series also allows for a larger surface area for the icon from 14mm dia to an increased 18mm dia.

SOFTWARE FEATURES

CAN and RS485 Keypad Addresses – Assign any valid CAN and RS485 address to the keypad. Communicate on either BUS simultaneously.

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 mechanical 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.

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.

A membrane compensation valve 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.



Icons shown on this keypad are for visual demonstration only.

STANDARD FEATURES

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

SOFTWARE FEATURES

- Change CAN or RS485 keypad addresses independently
- Periodic status transmission
- Heartbeat
- Event status transmission
- LED acknowledgement
- Address claim transmission
- RS485, CANopen and J1939

OTHER BENEFITS

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

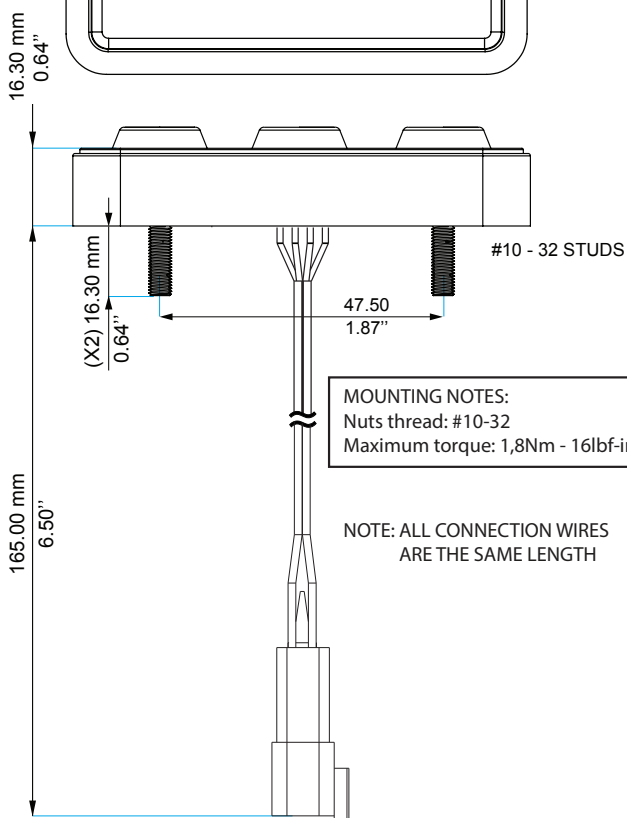
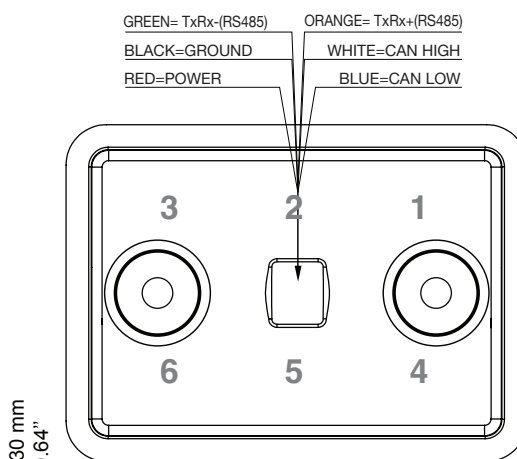
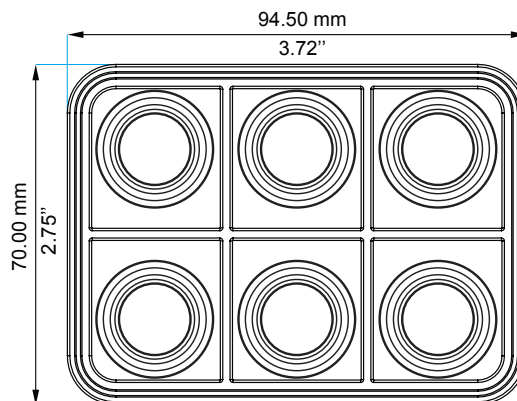
SPECIFICATIONS FOR STANDARD KEYPADS

ELECTRICAL

Supply Voltage	12-24Vdc Nominal (8-32VDC)
Standby Current	<50 mA
Communication BUS	RS485, CANopen, J1939
MTBF	239870 hours (in accordance with MIL-HDBK-217 - operating environment Ground Mobile)

MECHANICAL

Connector	Deutsch DT04-4P
Switch Life	3 million operations
Mounting Studs	#10-32 Steel
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 ASTM B117
Chemical Resistance	Deet, Engine Cleaner, Isopropyl Alcohol, Suntan Lotion, Multi-Purpose Cleaner, Orange Citrus Cleaner, Muriatic Acid
Ingress protection Rating	IP67/NEMA6/IP69K
Weight	140 gr



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M A R I N E

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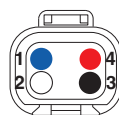
Via Montefeltro, 6 - 20156 Milano - Italy

Tel. +39 02 3088583 - Fax +39 02 33406697

www.blinkmarine.com - info@blinkgroup.com

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CONNECTOR STANDARD PINOUT



WIRE SIDE

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 pinouts or connectors.