

RACEPAD



CANBUS RACEPAD WITH 4 ROTARY ENCODERS AND LED INDICATORS

CANBUS KEYPAD FOR STEERING WHEEL

RacePad is the ultimate CAN-bus steering wheel button panel designed by Blink Marine to elevate your racing experience to the next level. With 4 rotary knobs and 8 easy-to-reach buttons, RacePad is the perfect addition to any race car. RacePad allows you to fully customize your driving style with individualized button icons and LED colour selection, the possibilities are endless.



SOFTWARE FEATURES

CAN Keypad Addresses – Assign any valid CAN address to the steering wheel switch panel.

J1939 Address Claim Transmission – Racepad 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 steering wheel switch panel on-hand. The steering wheel switch panel can be configured to automatically announce its address and accept a new address assignment as appropriate.

Event Status Transmission – Racepad panel 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 – Racepad 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 within a wide range.

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

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



HARDWARE FEATURES

4 additional 5V inputs - Allows the possibility to connect items such as analogue active sensors (e.g. pressure and temperature sensors), discrete switches (highside/lowside) and Hall Effect sensors.

Independent LED indicator lights – Each rotary encoder has 8 Blue LED light indicators, while all 8 pushbuttons are equipped with RGB LED rings. All LEDs can be independently programmed.

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

Custom backshell OPTION- Since it is not always possible to create a universal attachment that fits perfectly to all shapes and sizes of steering wheels available on the market, our team of experts will support customers to realize tailor-made mounting systems (composed by the backshell and the mounting plate) for every application.

STANDARD FEATURES

- Reconfigurable keys
- LED state & status configurable
- Backlit icons
- Multicolor LED indicator rings
- Laser etched icon inserts
- ON/OFF, momentary, toggle & scroll

SOFTWARE FEATURES

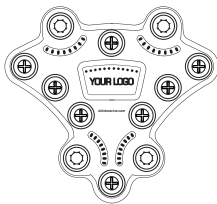
- Change CAN Racepad address independently
- Periodic status transmission
- Heartbeat
- Event status transmission
- LED acknowledgement
- Address claim transmission
- CANopen and J1939
- Programmer's manual available to help support

CUSTOM OPTIONS

- Two different knob types: with or w/o replaceable icon inserts
- Replaceable icon inserts
- Custom mounting plate
- For orders of 50+ pieces, it is possible to include a custom logo in the center.
- Configuration of LED point colors and backlighting.



SPECIFICATIONS FOR STANDARD RACEPAD



ELECTRICAL

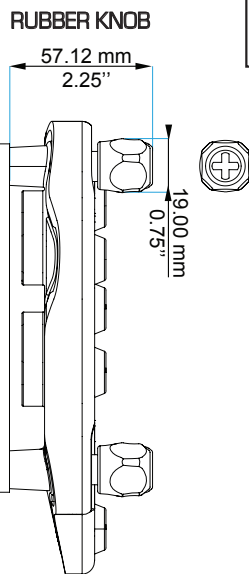
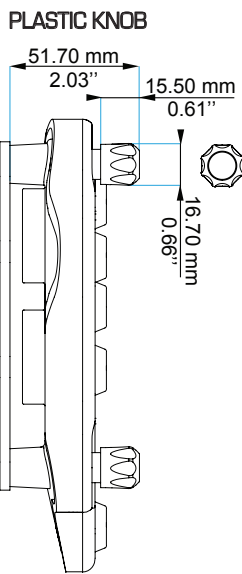
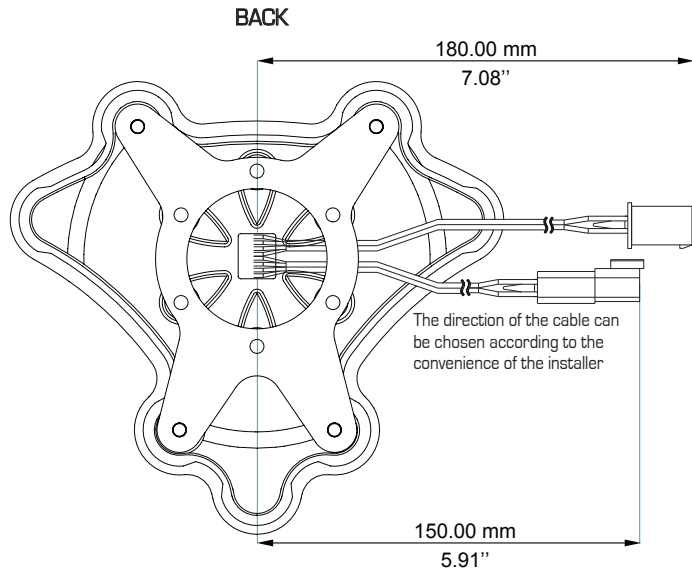
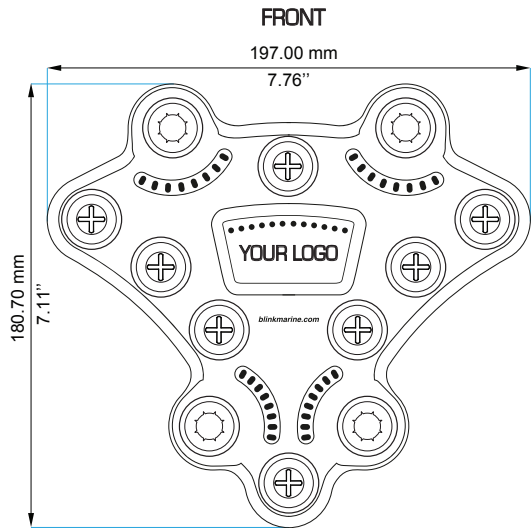
RACEPAD

Supply Voltage	12-24Vdc Nominal (8-32VDC)
Standby Current	<50 mA
Communication BUS	CANopen, J1939

MECHANICAL

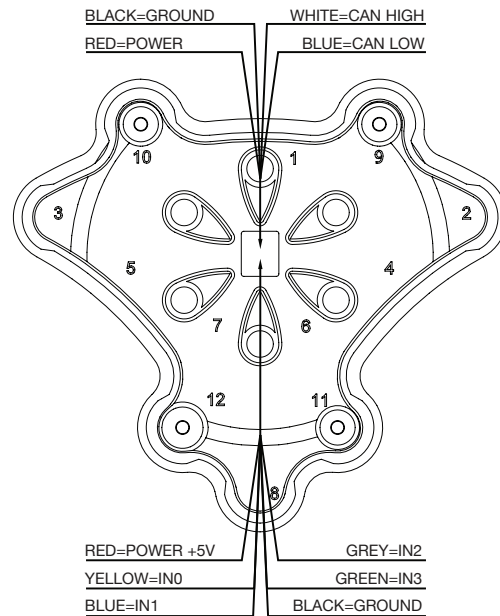
Connector	Deutsch DTM04-4P + Molex 39-01-3069
Switch Life	3 million operations
Mounting Screws	#4xM5
Keypad	Silicone rubber with polyurethane hardcoat
PC Board	1,6mm thick, Nema Grade FR-4, double clad with 1oz copper
Operating Temperature	-40°C to +70°C
Storage Temperature	-40°C to +85°C
Thermal Shock	-40°C to +85°C According to table 2 of ISO16750-4
Humidity	0 to 98% (no condensation)
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
Weight	300 gr (Inserts excluded)





MOUNTING NOTES:
Nuts thread: #10-32
Maximum torque: 1,8Nm - 16lbf-in

NOTE: ALL CONNECTION WIRES ARE THE SAME LENGTH

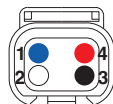


STEERING WHEEL ADAPTER MOUNT HOLDER

Included

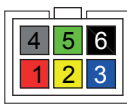


CONNECTORS STANDARD PINOUT



WIRE SIDE

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



WIRE SIDE

PIN	COLOUR	FUNCTION
1	Red	Power +5V
2	Yellow	IN0
3	Blue	IN1
4	Grey	IN2
5	Green	IN3
6	Black	GND



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