

blink
M A R I N E

CAN BASED DIGITAL SWITCHING SOLUTIONS

INDEX

KEYPADS

POWERTRACK SERIES	08
POWERKEY PRO SERIES	14
PKP-SI SERIES	18
PKP-SI-MT SERIES	26
PKP-LI SERIES	28
PKP-SI-FR SERIES	36
RACEPAD	40
POWERKEY SERIES	44

POWER MANAGEMENT UNITS

KEYBOX	54
PC	56

Blink Marine. A leading expert in CAN-based digital switching solutions.

Based in Milan, Italy, Blink Marine was founded in 2001 as a company specializing in the production of onboard instrumentation for seafaring vessels. Starting in 2009, thanks to implementation of CAN bus protocols on all its products, Blink Marine began serving the industrial automotive sector as well.

Today, the onboard electronics sector enjoys one of the highest innovation rates in the world, with continuous contributions from designers, developers, and integrators for vehicles and seafaring vessels. Digital keypads amount to a radical transformation of the dashboard, making the operator's control panel more ordered and essential, as well as helping users manage complex actions in a simple, straightforward manner.

Blink Marine's approach to the sector focuses on maximum flexibility and reliability. Blink Marine keypads are highly customizable, allowing the company to respond to a wide range of needs that are often the result of unique and bespoke client requests.

A faded, light blue version of the 'blink' logo is visible in the background of the right page.A large, bold, blue 'blink' logo is prominently displayed on the right page. The letters are lowercase and have a modern, slightly italicized sans-serif font.

POWERTRACK *Series*

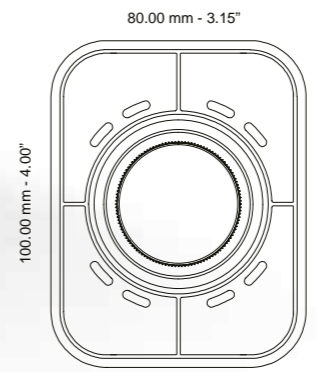
COMPACT AND ATTRACTIVE, WITH KEYED
ROTARY ENCODER

PowerTrack is a vehicle display controller based on CAN-bus protocol. Thanks to its rotary encoder, this keypad makes it possible to navigate within the menus of a vehicle's display. PowerTrack is also equipped with six backlit quick-pick commands that can be highly personalized.



PWTR4

PWTR4 embodies an advanced CANbus keypad, featuring a rotary encoder and robust IP67 protection. The 4 quick-select buttons seamlessly complement the functionality of the pushable rotary encoder, which is also available in a joystick version (PWTR4-J).





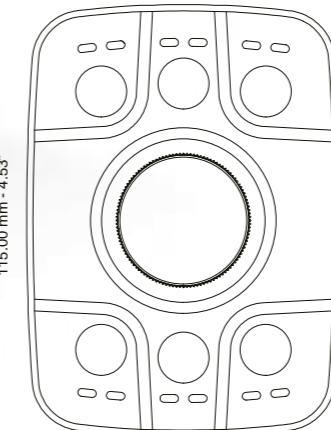
PWTR6

PWTR6 embodies an advanced CANbus keypad, featuring a rotary encoder and robust IP67 protection. The 6 quick-select buttons seamlessly complement the functionality of the pushable rotary encoder, which is also available in a joystick version (PWTR6-J).



ROTARY PUSHBUTTON JOYSTICK

84.00 mm - 3.31"



115.00 mm - 4.53"



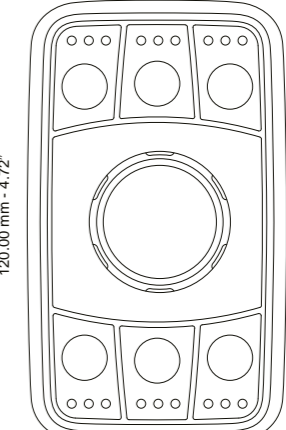
POWERTRACK

Together with the six quick-pick keys, the addition of a rotary push button knob makes it possible to manage complex scroll functions on the vehicles display system. PowerTrack boasts numerous personalization options, thanks in part to the flexible management of multi-colour LED's and the ability to mount either vertically or horizontally.



ROTARY PUSHBUTTON

70.00 mm - 2.75"



120.00 mm - 4.72"

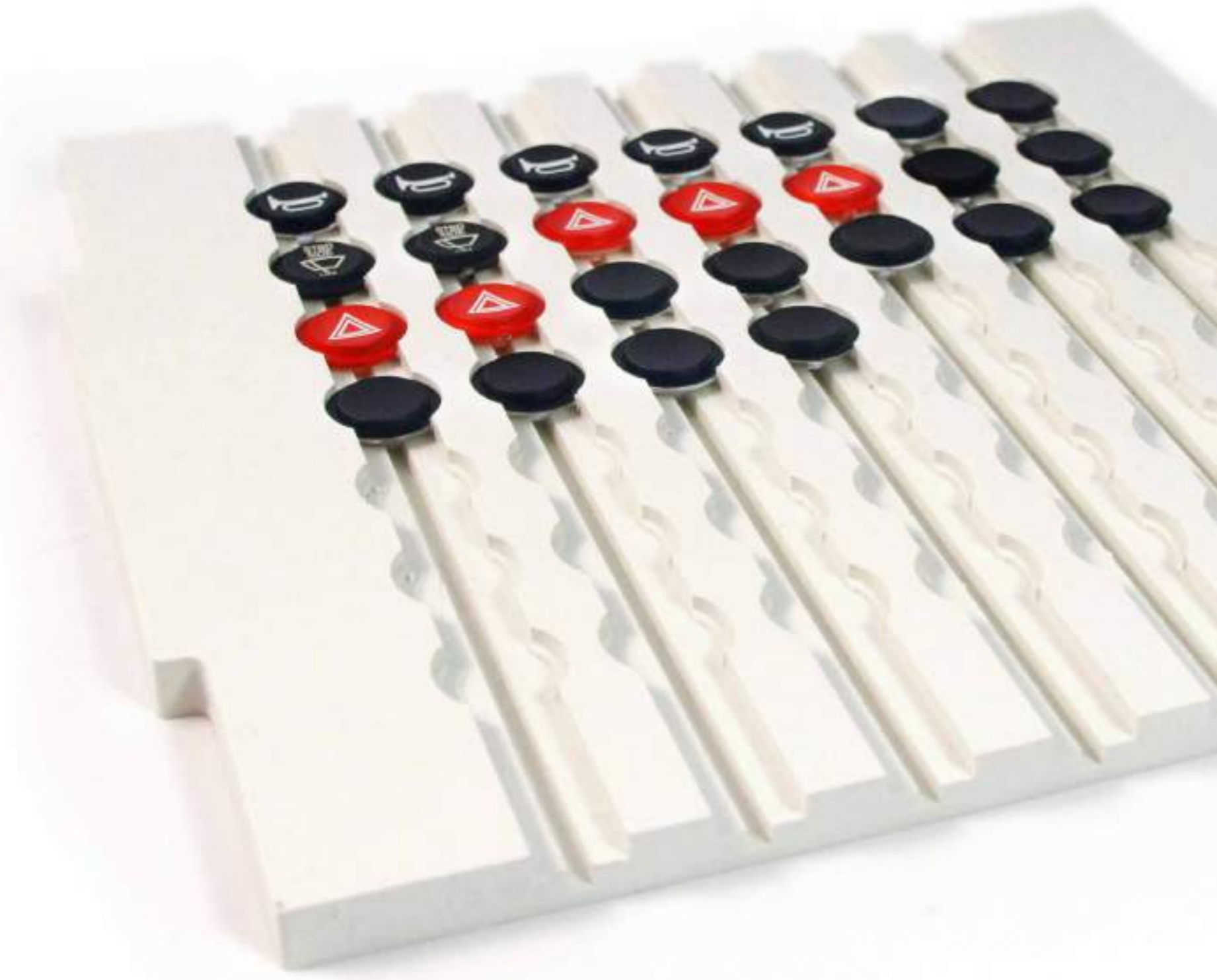
POWERKEY PRO

Series

THE MOST VERSATILE CAN KEYPAD ON THE MARKET

Keypads in the PRO series feature robust keys with removable inserts to suit any function application. PKP Keypads are available in two series with two different icon insert sizes. The PKP-SI series presents small inserts (15mm) and a compact design, while the PKP-LI series is designed with large, 24mm inserts that are easy to press, even while wearing gloves. The use of open protocols makes keypads in the PRO series perfect for automotive, agriculture, industrial and nautical markets.

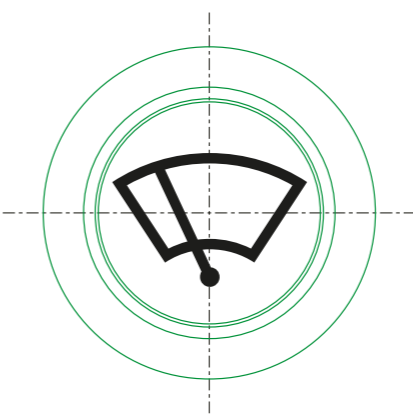
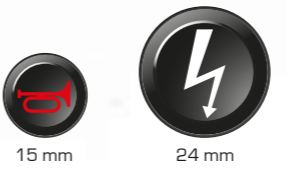


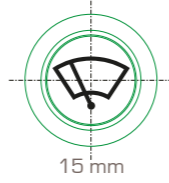


CUSTOMIZABLE ICON INSERTS

The replacement system for individual inserts makes designing and modifying layout of the keypads in the PKP-SI and PKP-LI series simpler and more economical. A selection of hundreds of different pre-existing keys can be viewed, and it is possible to order customized inserts.

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





PKP-SI SERIES

FLEXIBLE, SMART, RUGGED

Designed for even the harshest conditions, the PowerKey PRO withstands the cleaning force of pressure washers and holds on IP67 and IP69K rating, making them immune to waste, mud, soil, sand, oil, most chemicals and almost anything else thrown at it.



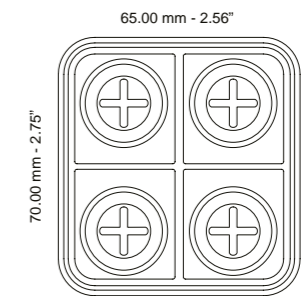
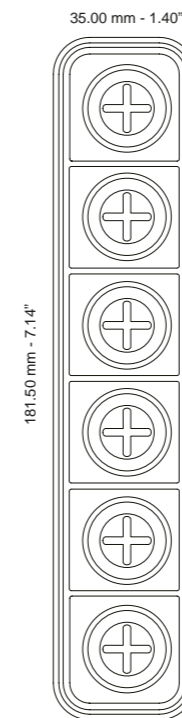
PKP-1600-SI

Six small keys



PKP-2200-SI

Four small keys





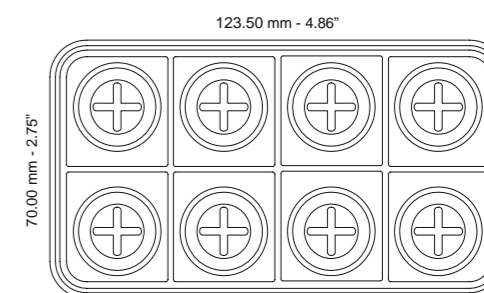
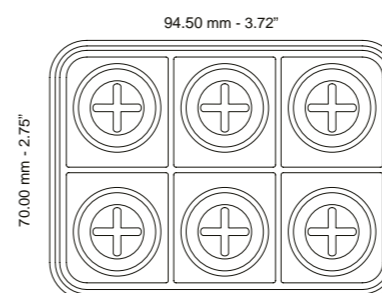
PKP-2300-SI

Six small keys



PKP-2400-SI

Eight small keys



If your project requires compatibility with the ISObus communication protocol, please send a request directly to support@blinkmarine.com, and our technical team will promptly get in touch with you.



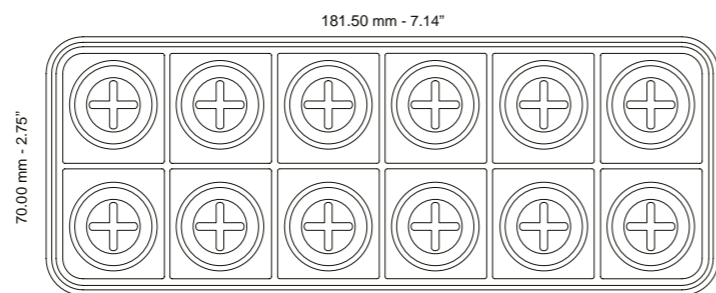
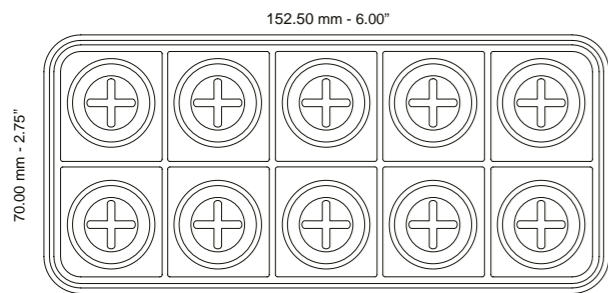
PKP-2500-SI

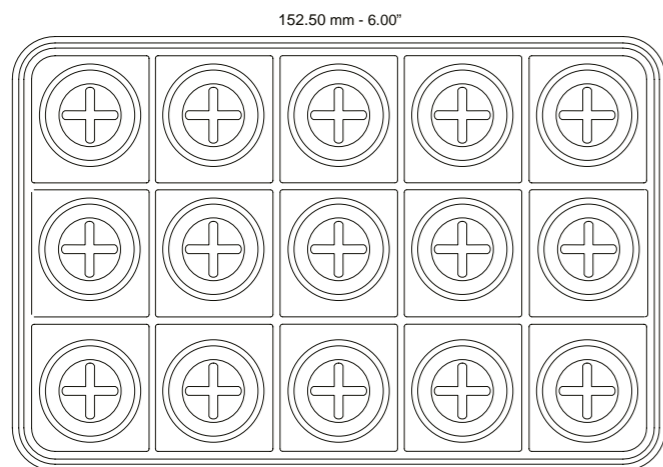
Ten small keys

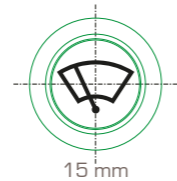


PKP-2600-SI

Twelve small keys







PKP-SI-MT SERIES

CAN-BUS KEYPADS WITH
2 ROTARY ENCODERS

PKP-3500-SI-MT is a new direction in CANbus keypads. This all new design comes equipped with thirteen push buttons with replaceable icon inserts, plus two rotary encoders that are also push enabled. The compact layout and inclusion of the rotary encoders allows for significant dash space saving while expanding the functionality of the vehicle.



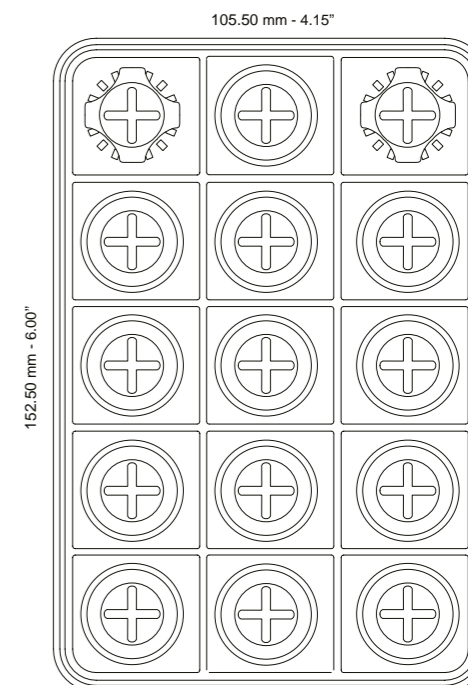
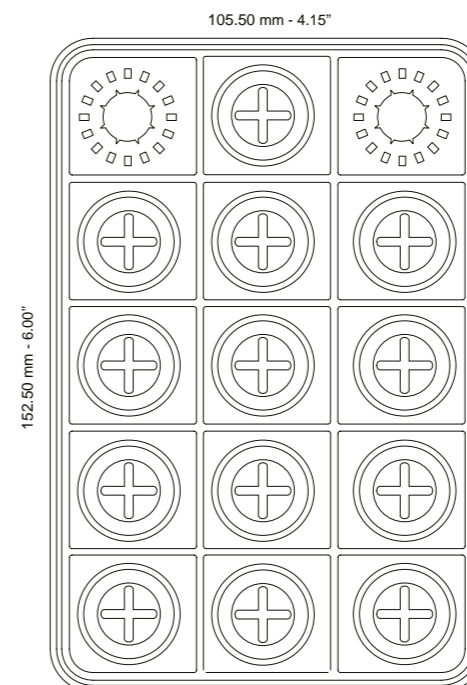
PKP-3500-SI-MTP

Thirteen small keys. Includes 2 rotary encoders with a solid plastic knob.



PKP-3500-SI-MTR

Fifteen small keys. Includes 2 rotary encoders with a rubber knob that allows for a standard PKP-SI insert to be fitted.





FLUSH OR FRONT MOUNT

PERFECT ANYWHERE YOU WANT TO MOUNT IT, POWERKEY PRO, CAN-BUS KEYPAD CAN BE INSTALLED THE WAY YOU WANT AND GIVES YOU AN ABSOLUTE CONTROL OF YOUR VEHICLE WITH JUST A VERY SMALL FOOTPRINT.



PKP-LI SERIES

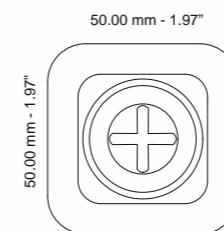
FLEXIBLE, SMART, RUGGED

Like the PKP-SI series family, these large button models are designed for even the harshest of conditions for both internal and external applications.



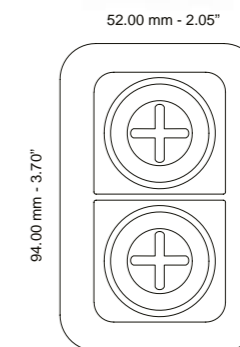
PKP-1100-LI

One large key



PKP-1200-LI

Two large keys



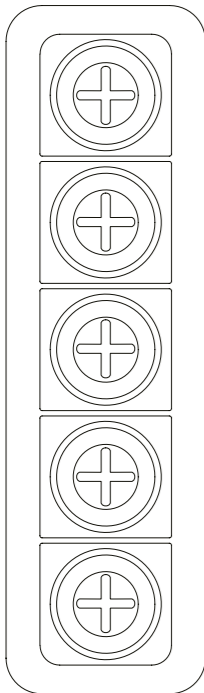


PKP-1500-LI

Five large keys

52.00 mm - 2.05"

193.00 mm - 7.60"

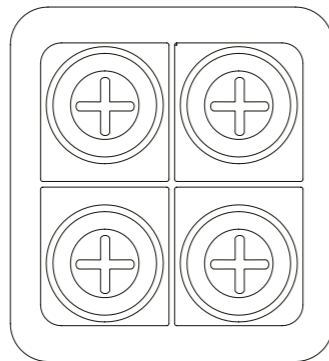


PKP-2200-LI

Four large keys

85.50 mm - 3.36"

94.00 mm - 3.70"

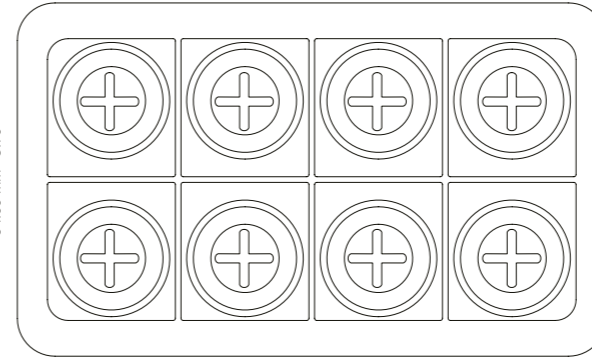


PKP-2400-LI

Eight large keys

156.50 mm - 6.16"

94.00 mm - 3.70"





POWERKEY PRO SERIES

STANDARD FEATURES

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

SOFTWARE FEATURES

- Periodic status transmission
- Heartbeat
- Event status transmission
- LED acknowledgement
- Address claim transmission
- CANopen and J1939

OTHER BENEFITS

- Programmer's user manuals available to help support
- Plug-and-play reconfigurability
- Supplied as fixed laser-etched icons



PKP-SI-FR

FOR PRODUCTION VOLUME
ORDERS

The inserts of the keypads in the PKP-SI-FR series are not removable. This makes them perfect for those who want to maintain the PKP aesthetic without the need to manage layout changes. The FR series also means a 35% increase in the surface area of the decal.



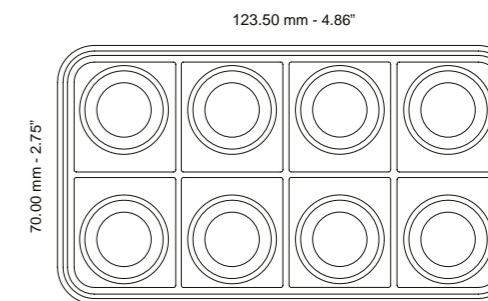
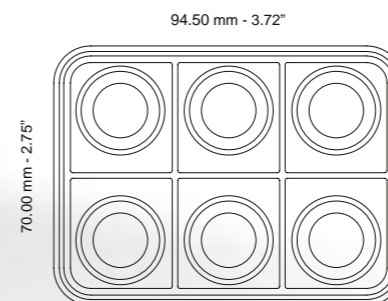
PKP-2300-SI-FR

Six small keys



PKP-2400-SI-FR

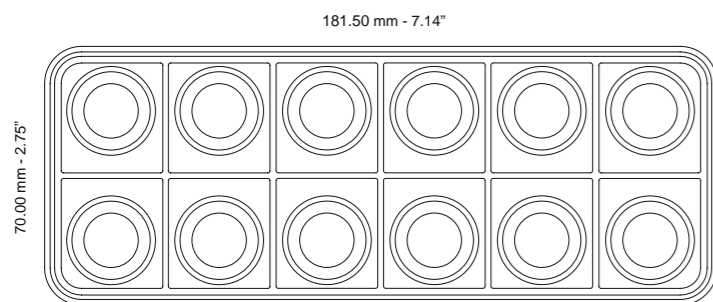
Eight small keys





PKP-2600-SI-FR

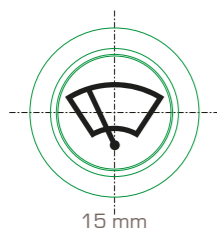
Twelve small keys



RACEPAD

CANBUS KEYPAD FOR STEERING WHEEL

With 4 rotary knobs and 8 easy-to-reach buttons, RacePad is the ultimate CAN-bus steering wheel button panel designed by Blink Marine. The perfect companion for your racing steering wheel.



RACEPAD

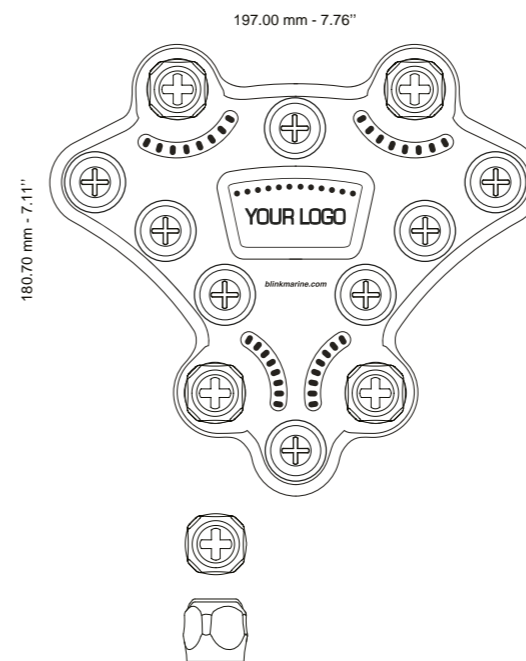
CAN-BUS STEERING
WHEEL BUTTON PANEL

Racepad is available in two different standard versions, depending on the type of rotary knob.



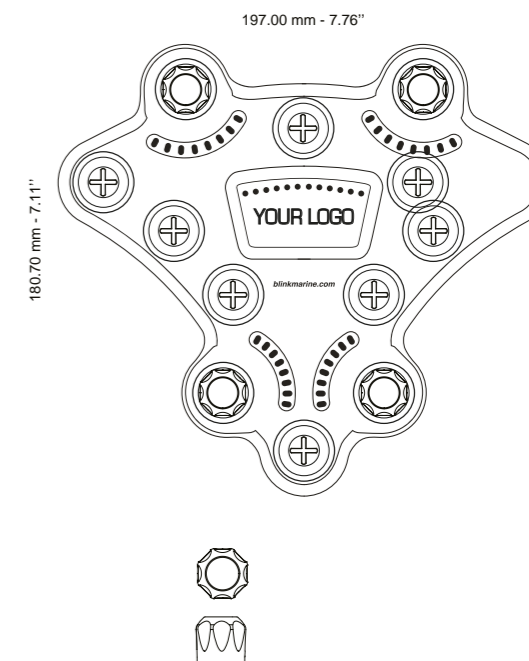
RACEPAD MODEL R

This version comes equipped with rubber knobs, allowing for the application of our standard icon inserts. The rubber knobs offer enhanced grip and tactile feedback, providing a comfortable and customizable experience.



RACEPAD MODEL P

This version features a solid plastic knob for the four encoders. It offers a durable and reliable design, perfect for those who prefer a solid feel and precise control during their races.



POWERKEY *Series*

RUGGED AND STYLISH, NO COMPROMISES

The soft and rounded lines give the keypads in the Powerkey series an elegant and iconic design. The layout can be customized by changing the number of LED points, the icon graphics or even the number of keys by adding your company logo.



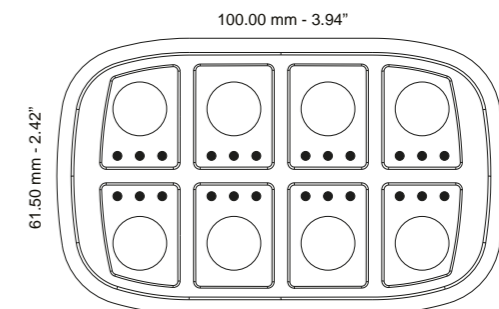
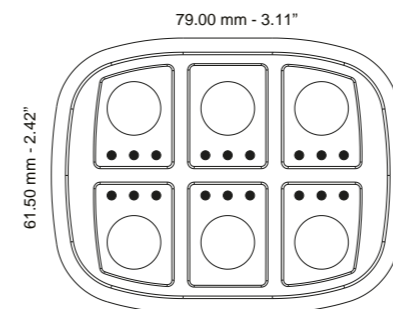
PK23

Six keys, up to three LEDs per key



PK24

Eight keys, up to three LEDs per key





PK SERIES

STANDARD FEATURES

- Custom laser etched icons
- Multiple LED status indicators per function
- Low profile
- Compact
- Vertical or horizontal mount
- Overlay
- Laser Etch
- Pad Print
- LED backlit icons
- ON/OFF, momentary, toggle & scroll

SOFTWARE FEATURES

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

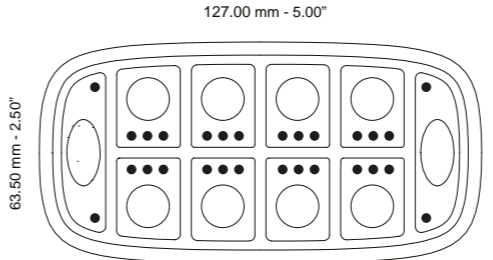
OTHER BENEFITS

- Programmer's user manuals available to help support
- Plug-and-play reconfigurability
- Supplied as fixed laser-etched icons

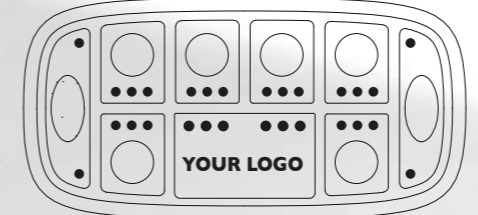


PK1000

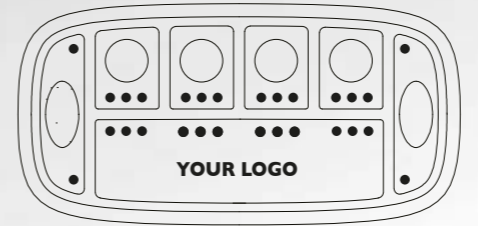
Available in three different layouts:
6, 8, 10 Keys



10 Keys



8 Keys

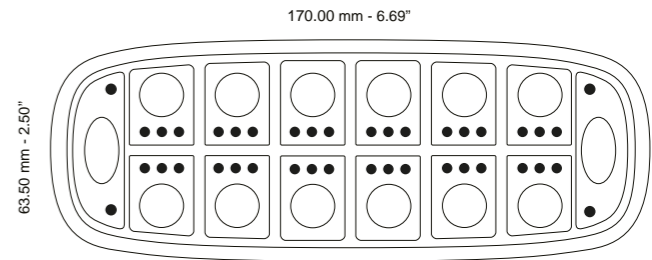


6 Keys

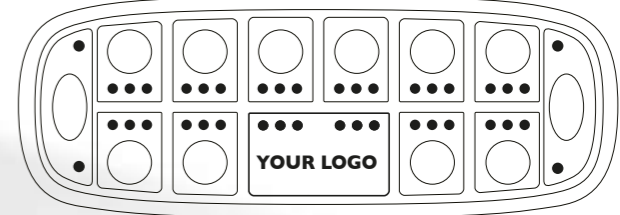


PK1400

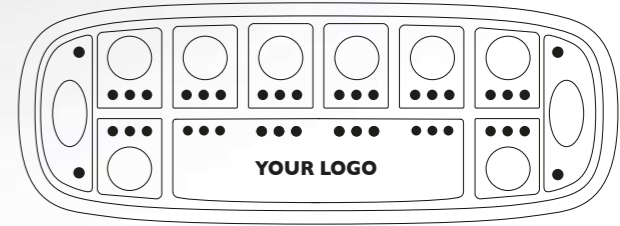
Available in three different layouts:
10, 12, 14 Keys



14 Keys



12 Keys



10 Keys

POWER MANAGEMENT UNITS





EXPAND YOUR ONBOARD TECHNOLOGY

KeyBox provides all the innovation of a Blink Marine technology without the cost and complexity of a larger digital system. It is designed for use primarily with vehicles or boats without the larger price tag of the more complex systems.

ELECTRICAL FEATURES

- 13 switched circuits that include:
 - Momentary, toggle, and time-out functions
 - Circuits rated up to 10 ampere at 12V and 5 ampere at 24V maximum continuous load (resistive)
 - Isolated relay outputs
 - Fuse protected circuits
 - Input undervoltage lock down and overvoltage protection

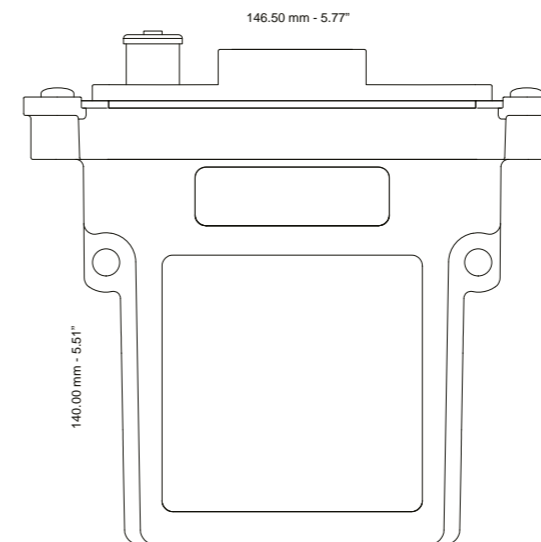
SPECIAL FEATURES

- CAN-bus compatible (CANopen)
- Online configurator tool available for field programmability of electrical functions



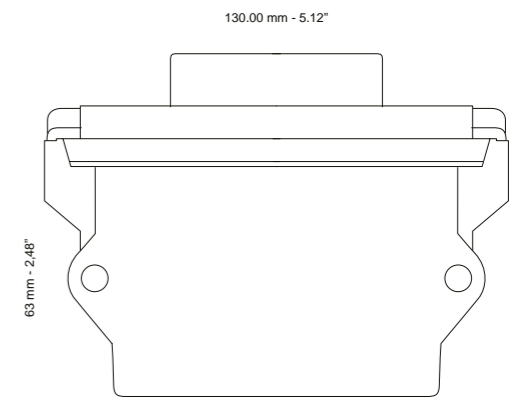
KEYBOX

Compact and versatile; KeyBox is a smart relay module for electric loads that permits the utilisation of Blink keypads where there are no PLC systems on board. Thanks to its CAN bus interface and high power outputs, KeyBox can also be used in "slave" mode with more complex systems.



PG8

Compact and versatile; PG8 is a gateway module designed to provide customers with additional, simple interface solutions: additional inputs (digital and analogue) and low power outputs. All while still enjoying all the benefits of CAN bus multiplex technology.





22 OUTPUTS, 15A EACH

PC21B is an all new power management enclosure designed and manufactured by Blink Marine. It can support up to 22 outputs, 15A each, in an IP67 enclosure. PC21B hardware is fully compatible with the previous generation of PC21 controllers (by DSS / DNA) installed on boats throughout the USA and distributed globally. This allows Blink Marine to design software 100% compatible with old DSS / DNA systems.

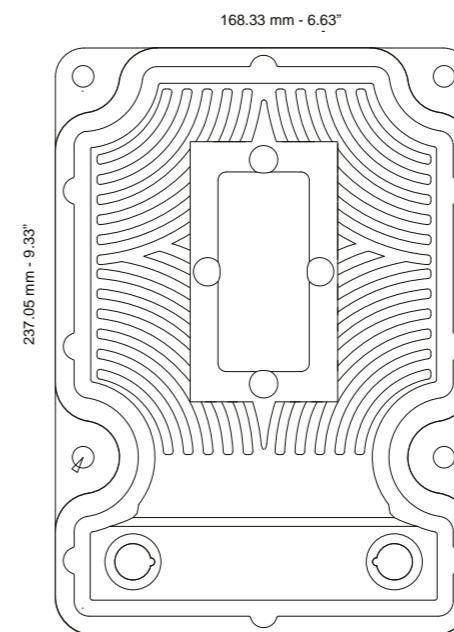
Electrical Features

- 12V or 24V nominal input voltage
- 150 Ampere total PME input current carrying capability
- 22 switched circuits that include:
 - Momentary, toggle and time-out functions
 - Pulse-width modulation of output voltage for dimming capability on 3 circuits
 - 22 circuits, each rated up to 15A
 - 2 complete H-Bridge circuits for driving reversible motors
- Parallellable output increases current rating
- An electronic circuit breaker protects every circuits. The current rate for each circuit can be set independently
- Remote reset of any output circuitry fault directly from the keypad
- Input undervoltage lock down



PC21B

Deutsch DRC 10-40P-A004





THE BRAIN OF YOUR SYSTEM

The Power Management Unit is the brain of the system. It receives requests from switch or keypad and handles these commands based on the current state of the system. The output may be the activation/deactivation of a circuit, starting a timer function or, in a system with keyless start, locking or unlocking of the system.

The PowerCore then sends status data from system to keypad to turn on/off the LED indicators and backlighting.

ELECTRICAL FEATURES

- 12V or 24V nominal input voltage
- PC10-100Ampere total PME input current carrying capability @ 12 volts
- PC10-12 switched circuits that include:
 - Momentary, toggle, and time-out functions
 - Pulse-width modulation of output voltage for dimming capability
 - 3 circuits rated up to 20A maximum continuous load, 9 circuits rated up to 15A
 - 2 complete H-Bridge circuits for driving reversible motors
- Parallellable output increases current rating
- An electronic circuit breaker protects every circuits. The current rate for each circuit can be set independently.
- Remote reset of any output circuitry fault directly from the keypad
- Input undervoltage lock down and overvoltage protection



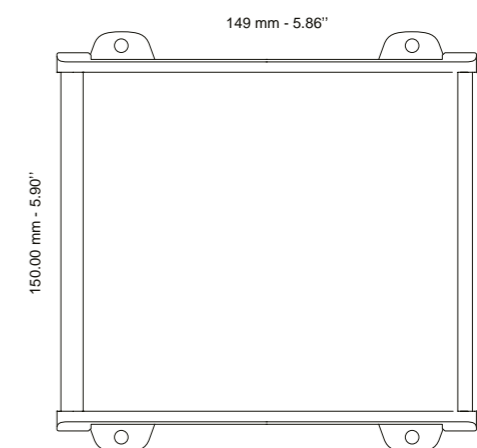
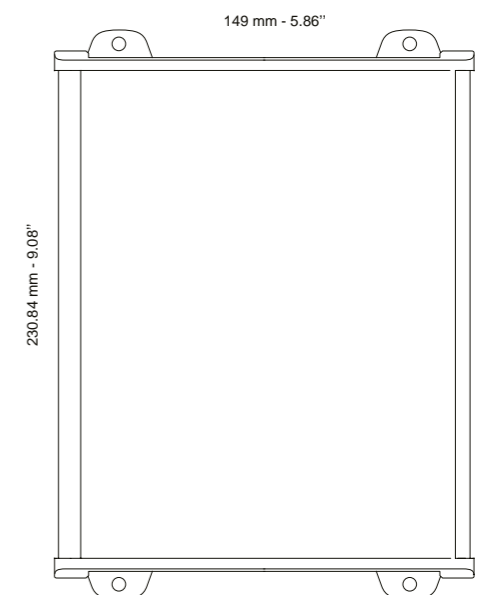
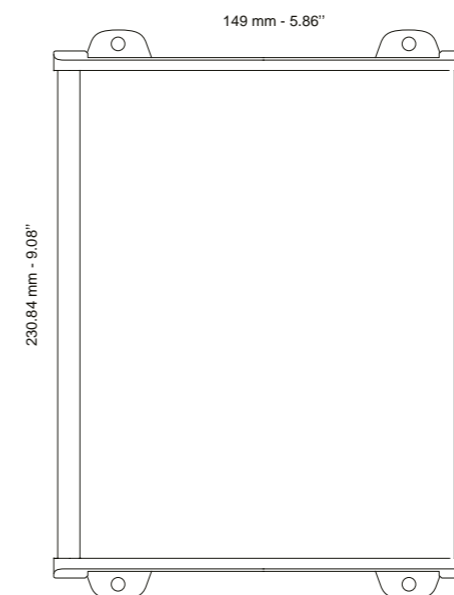
PC10

Molex connector 16 Pin



PC10-SR

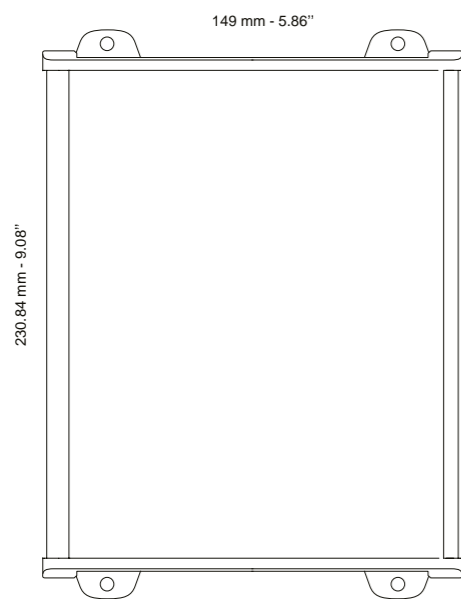
Deutsch connector 24 Pin





PC20

Molex connectors 16+12 Pin





█ Blink S.r.l.

Via Montefeltro, 6 - 20156 Milan - Italy
Tel. +39 02 3088583 - Fax +39 02 33406697
info@blinkgroup.com
www.blinkmarine.com

█ Blink Marine Australia Pty Ltd.

A: Unit 3 No. 15 Parramatta Road - Underwood QLD - Australia - 4119
PA: PO Box 1301 - Slacks Creek QLD - Australia - 4127
Phone: +61 7 3290 1196 - Mobile: +61 413 123 520
sales@blinkaustralia.com
www.blinkaustralia.com

█ Blink America LLC

6465 N Avondale Ave - Chicago, IL 60631 - USA
Ph. +1 (773) 828-4863 - Fax +1 (773) 775-1716
usainquiries@blinkgroup.com
www.blinkmarine.com

█ Blink (Asia) Ltd.

m 2302, 23/F Marina House, 68 Hing Man Street, Shau Kei Wan - Hong Kong
香港 筲箕灣, 興民街68號, 海天廣場 23/F, 2302室
Ph. +(852) 9763 8051
asiasales@blinkgroup.com
www.blinkmarine.com