CAN BASED DIGITAL SWITCHING SOLUTIONS

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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.

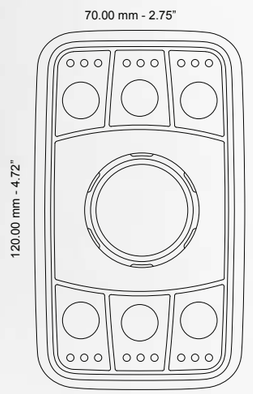
POWERTRACK

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.

POWERTRACK

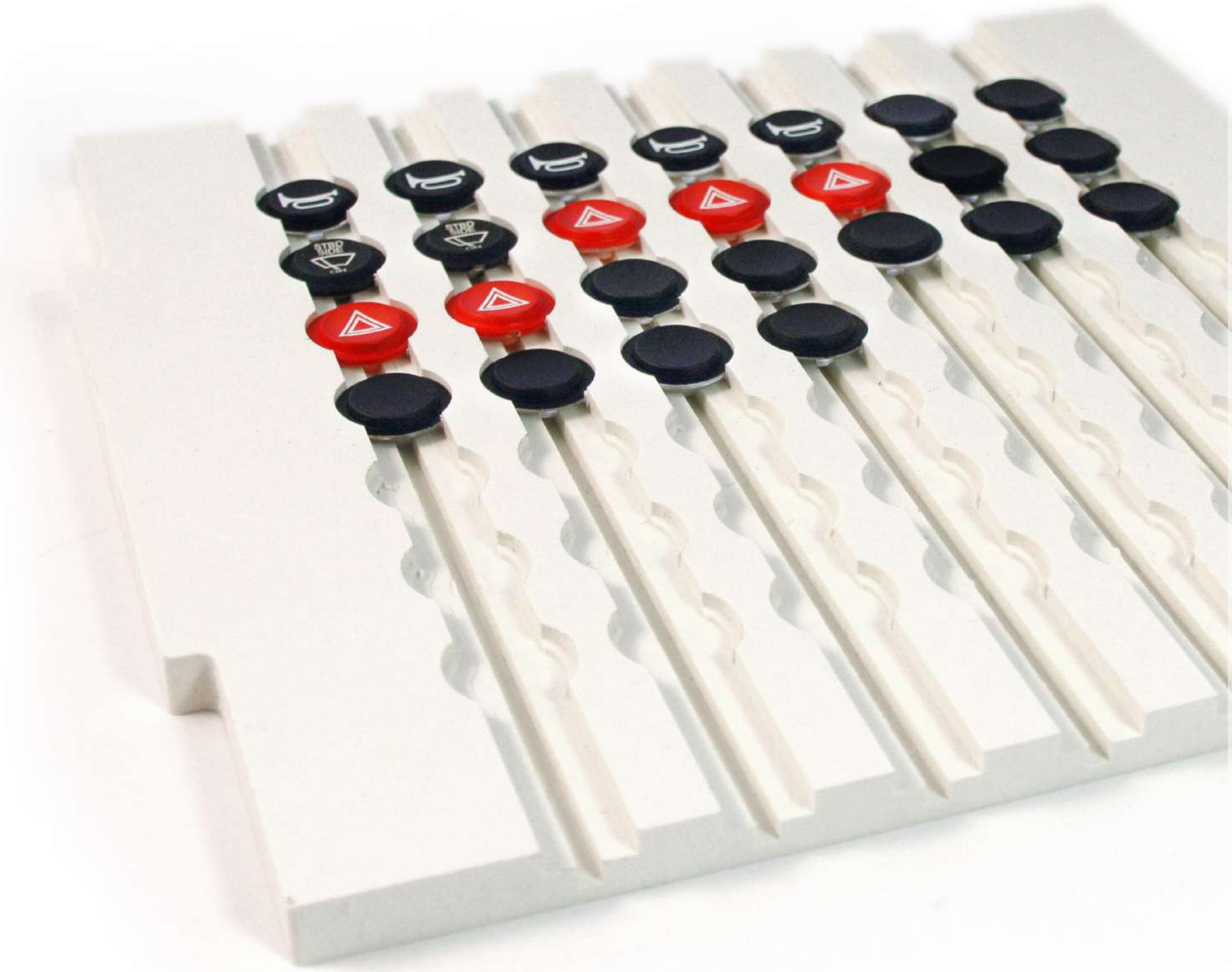
Together with the six quick-pick keys, the addition of a rotary push button knob makes it possible to manage complex scroll functions on the vehicles display system. PowerTrack boasts numerous personalization options, thanks in part to the flexible management of multi-colour LED's and the ability to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



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.

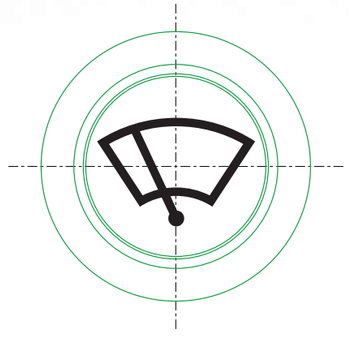


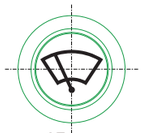
CUSTOMIZABLE ICON INSERTS

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.

15 mm 24 mm





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-2200-SI

Four small keys

PKP-2300-SI

Six small keys

PKP-2400-SI

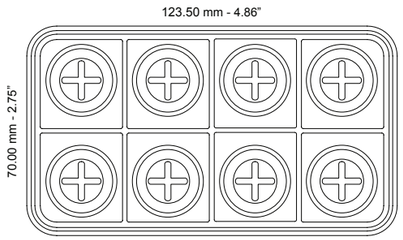
Eight small keys

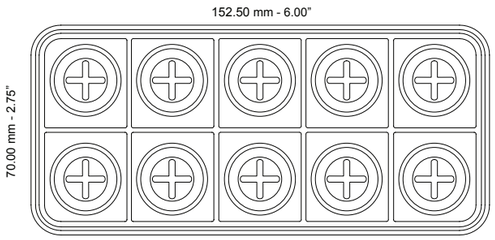
PKP-2500-SI

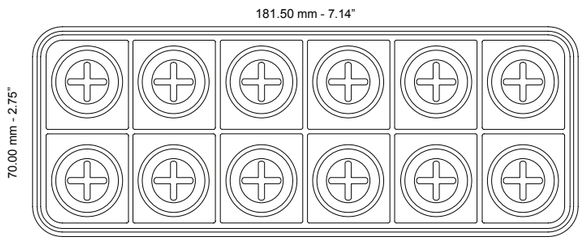
Ten small keys

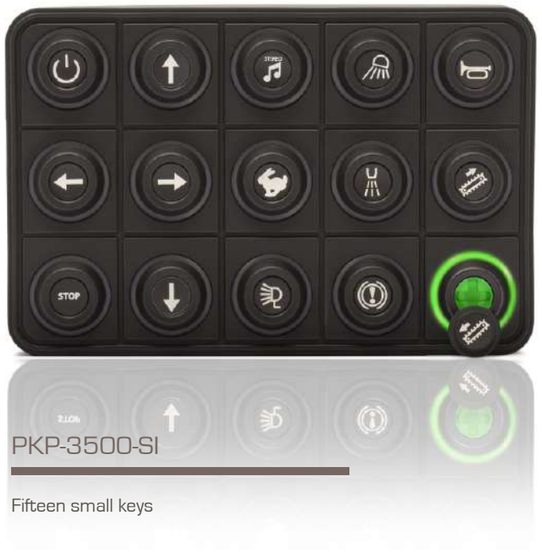
PKP-2600-SI

Twelve small keys



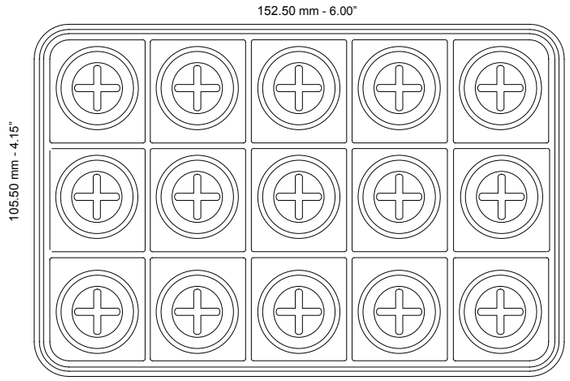


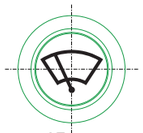




PKP-3500-SI

Fifteen small keys





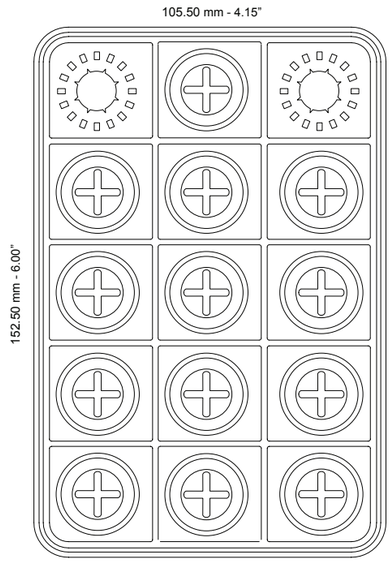
PKP-SI-MT SERIES

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.

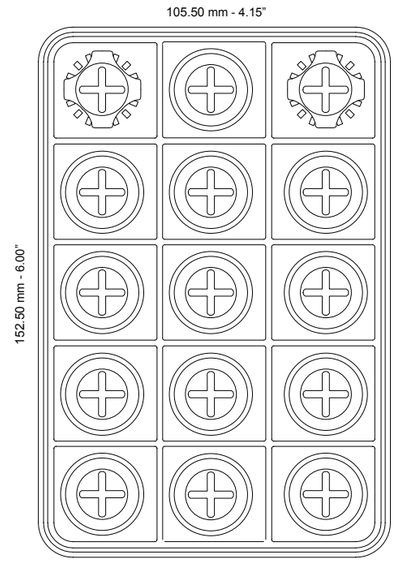
PKP-3500-SI-MTP

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.

COURTESY OF SEALEGS INTERNATIONAL - NEW ZEALAND

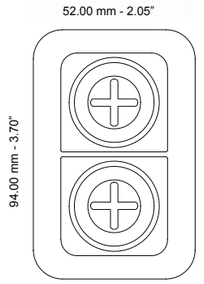
SEALEGS
BE AMPHIBIOUS

PKP-LI SERIES

FLEXIBLE, SMART, RUGGED

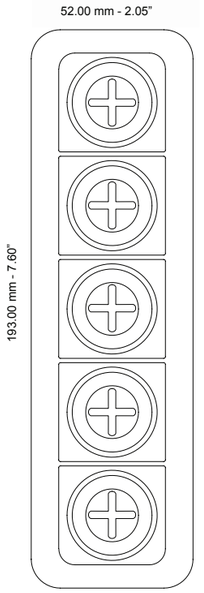
PKP-1200-LI

Two large keys



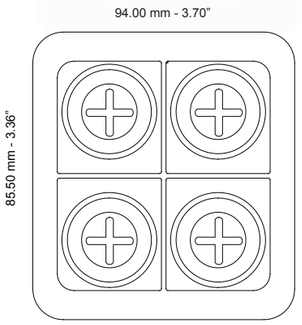
PKP-1500-LI

Five large keys



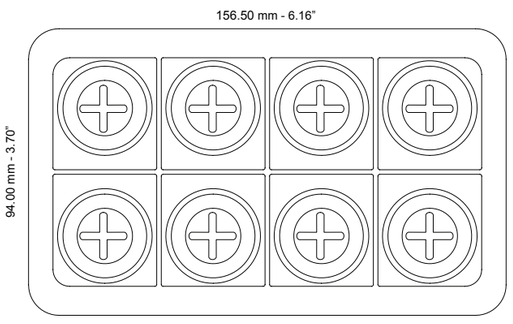
PKP-2200-LI

Four large keys



PKP-2400-LI

Eight large keys



BUILT TOUGH

DESIGNED FOR EVEN THE HARSHEST CONDITIONS, THE POWERKEY PRO SERIES WITHSTANDS THE CLEANING FORCE OF PRESSURE WASHERS AND HOLDS ON IP67 - IP69K RATING, MAKING THEM IMMUNE TO WASTE, MUD, SOIL, SAND, OIL, MOST CHEMICALS AND ALMOST ANYTHING ELSE THROWN AT IT.

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 like the PKP-SI-FR series for those who want to maintain the PKP designed for even the harshest of conditions for both internal and external applications.

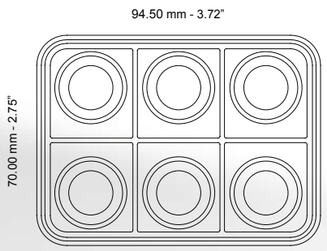
Like the PKP-SI-FR series for those who want to maintain the PKP designed for even the harshest of conditions for both internal and external applications. The FR series also means a 35% increase in the surface area of the decal

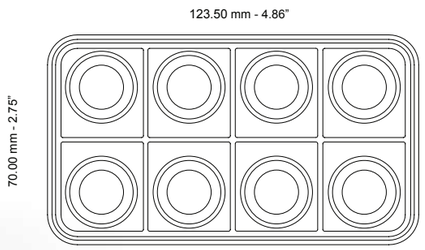
PKP-2300-SI-FR

Six small keys

PKP-2400-SI-FR

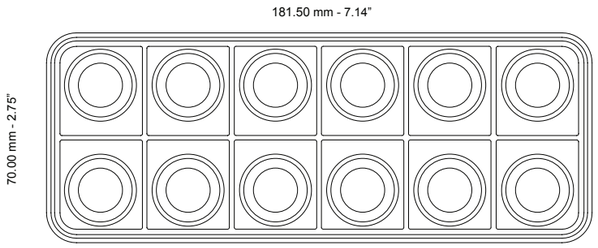
Eight small keys





PKP-2600-SI-FR

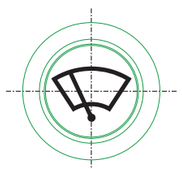
Twelve small keys



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.



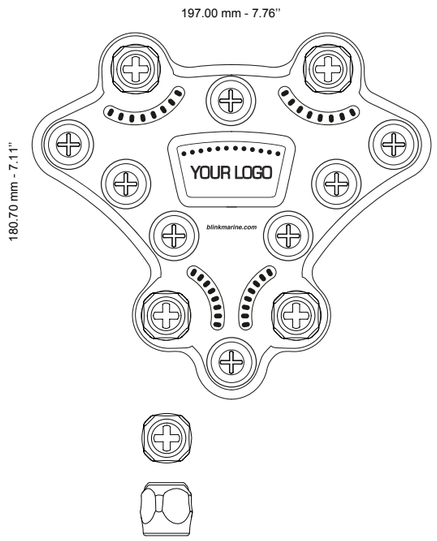
RACEPAD

CAN-BUS STEERING WHEEL BUTTON PANEL

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

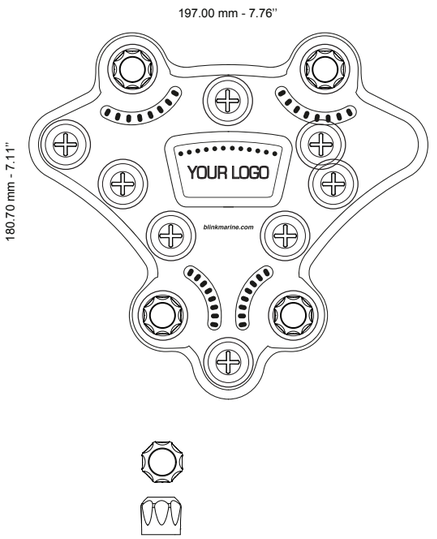
RACEPAD MODEL R

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.



R
N
D
MAX
blinkmarine.com
IGN

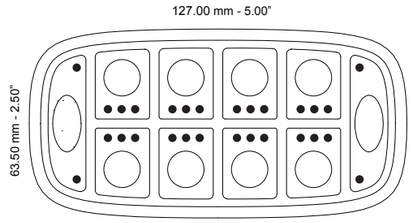
POWERKEY *Series*

RUGGED AND STYLISH, NO COMPROMISES

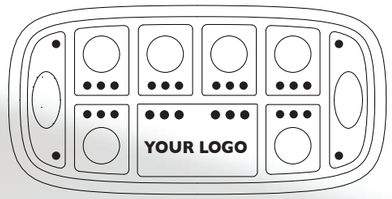
The soft and rounded lines give the keypads in the Powerkey series an elegant and iconic design. The layout can be customized by changing the number of LED points, the icon graphics or even the number of keys by adding your company logo.

PK1000

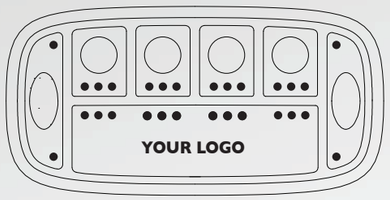
Available in three different layouts:
6, 8, 10 Keys



10 Keys



8 Keys



6 Keys

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

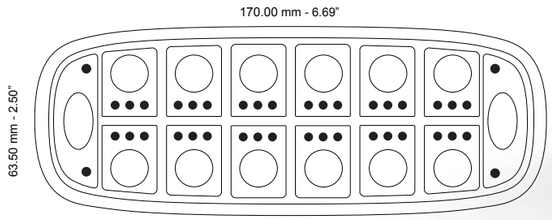
- Change CAN keypad addresses independently
- Periodic Status transmission
- Heartbeat
- Event status transmission
- LED acknowledgement
- Address claim transmission
- CANopen, J1939

OTHER BENEFITS

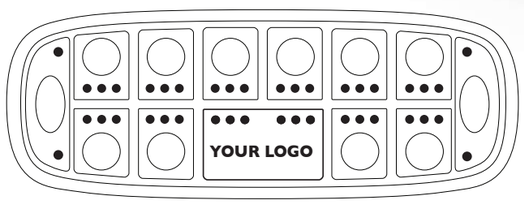
- Programmer's user manuals available to help support
- plug-and-play reconfigurability
- Supplied as fixed laser-etched icons

PK1400

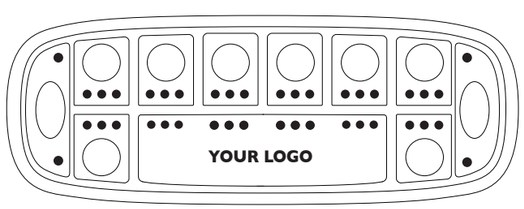
Available in three different layouts:
10, 12, 14 Keys



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

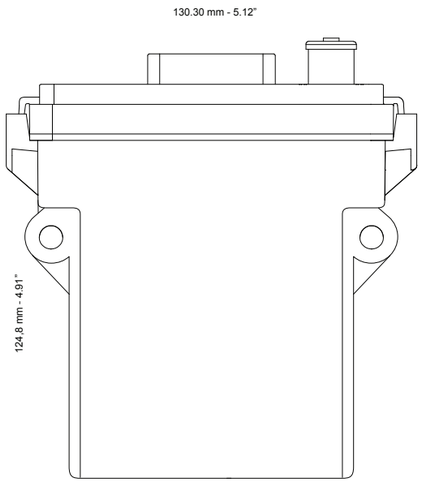
- CAN-bus compatible (CANopen)
- Online configurator tool available for field programmability of electrical functions

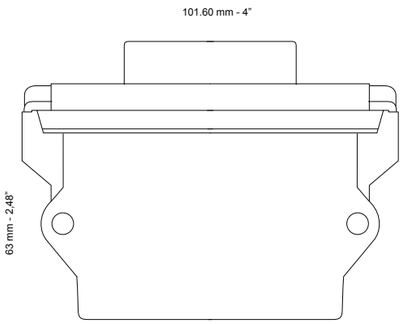
KEYBOX

Compact and versatile; Keybox3 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, Keybox3 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

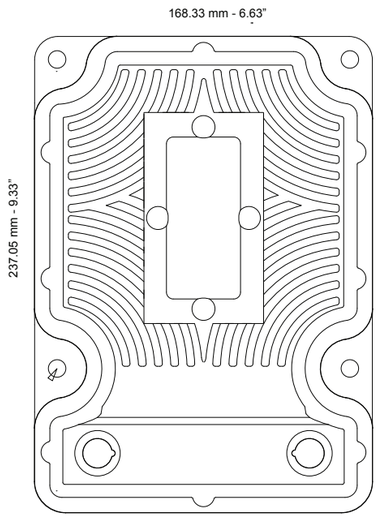
PC21B is an all new power management enclosure designed and manufactured by Blink Marine. It can support up to 22 outputs, 15A each, in an IP67 enclosure. PC21B hardware is fully compatible with the previous generation of PC21 controllers (by DSS / DNA) installed on boats throughout the USA and distributed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

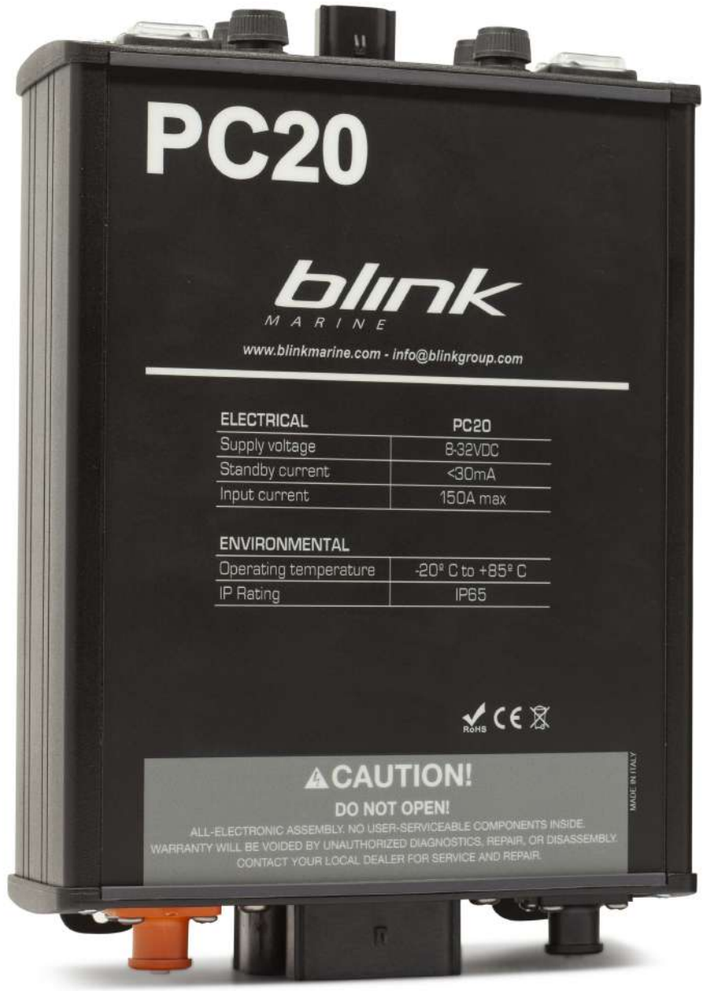
Electrical Features

- 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
- Paralellable 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

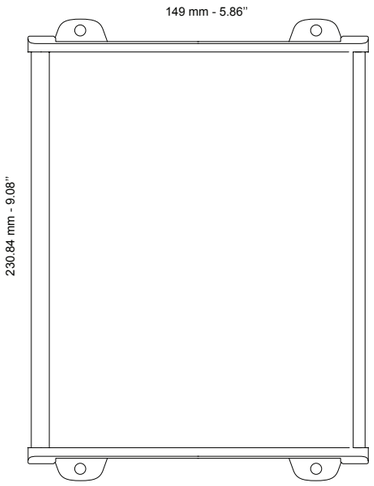
- 12V or 24V nominal input voltage
- PC10-100Ampere total PME input current carrying capability @ 12 volts
- PC10-12 switched circuits that include:
  - Momentary, toggle, and time-out functions
  - Pulse-width modulation of output voltage for dimming capability
  - 3 circuits rated up to 20A maximum continuous load, 9 circuits rated up to 15A
  - 2 complete H-Bridge circuits for driving reversible motors
- Paralellable 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

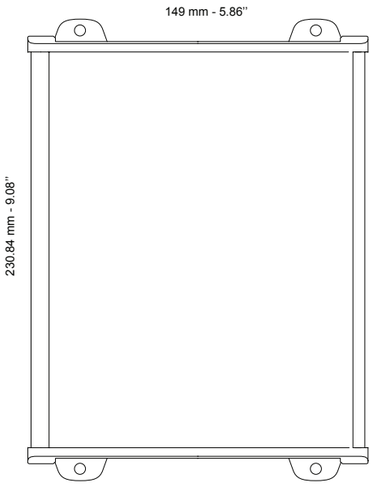
PC10

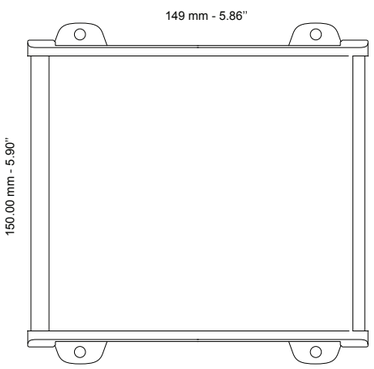
Molex connector 16 Pin

PC10-SR

Deutsch connector 24 Pin

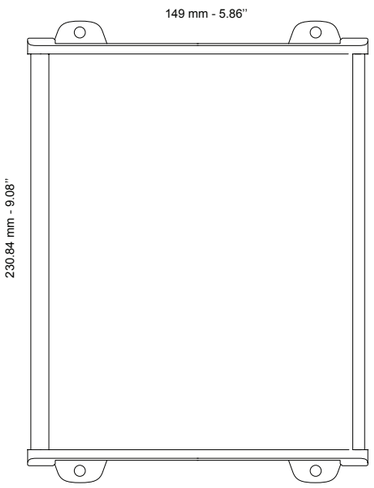






PC20

Molex connectors 16+12 Pin



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