POWERTRACK

FLEXIBLE - SMART - RUGGED

The PowerTrack keypad and its rotary encoder were both designed by Blink Marine as a natural evolution of the Powerkey 1000, from which it has inherited the same attractive and compact visual design.

Together with the six quick-pick keys, the addition of a rotary pushbutton knob makes it possible to manage complex scroll functions on the display, and can interface with onboard systems thanks to CANbus protocols. PowerTrack boasts numerous personalization options, thanks in part to the flexible management of multicolor LEDs.

SOFTWARE FEATURES

CAN keypad addresses - You are able to assign any valid CAN address to the keypad.

CANopen communication protocol - We have released a new version of our CANopen that is fully compliant with Device Profile 301d. Configurable baud rate and custom CAN message.

Smart led management - The intensity of the LEDs can be adjusted, whilst any LED indicator – whether fixed or blinking – can be personalized according to color preference. Backlighting for the keypad is also adjustable.

Concave keys - The ergonomic design simplifies touch navigation of the quick-pick keys.

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

Periodic status transmission - The keypad can be configured to send messages to the CANopen, on a predetermined frequency. This frequency can be set as low as every 10 milliseconds. This feature can be used to monitor the continuity of the system and is also helpful in troubleshooting a fault.

Periodic heartbeat - The keypad sends a continuous broadcast of messages to indicate it is still functioning correctly. The frequency of these messages can be adjusted as needed.
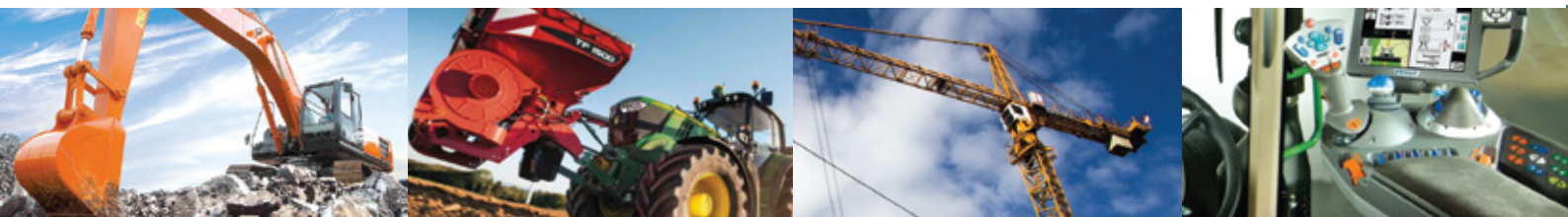
HARDWARE FEATURES

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

Splashproof - PowerTrack is resistant to impacts generated by water spray and other potentially damaging elements like dust, sand and mud.

Independent KEY - The device is able to support any multiple pressure key combination.

An ergonomic knob - This controller was designed to guarantee a comfortable grip in any given situation thanks to a rubber insert that wraps all the way around the knob.

Encoder with pushbutton - Use of the knob is both comfortable and immediate. For example, the knob allows its user to manage scroll & select operations without letting go of the handle.

STANDARD FEATURES

- Custom laser etched icons
- High intensity led status indicators
- Multicolor LED Backlight
- CANopen compliant
- Event status transmission
- Periodic status transmission
- Green/red LED indicators
- Compact design
- Vertical or horizontal mount
- Protected from inverted polarity
- Encoder with pushbutton
- Periodic Heartbeat
- LED acknowledgement

OPTIONAL FEATURES

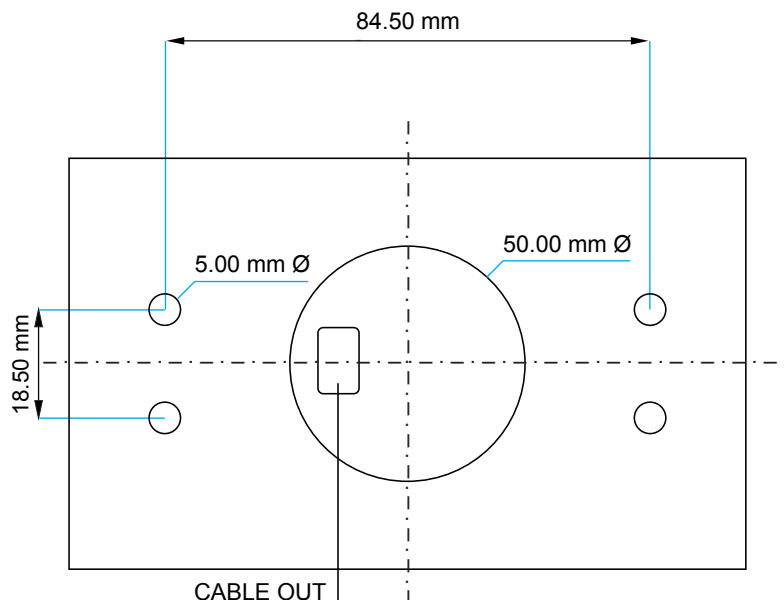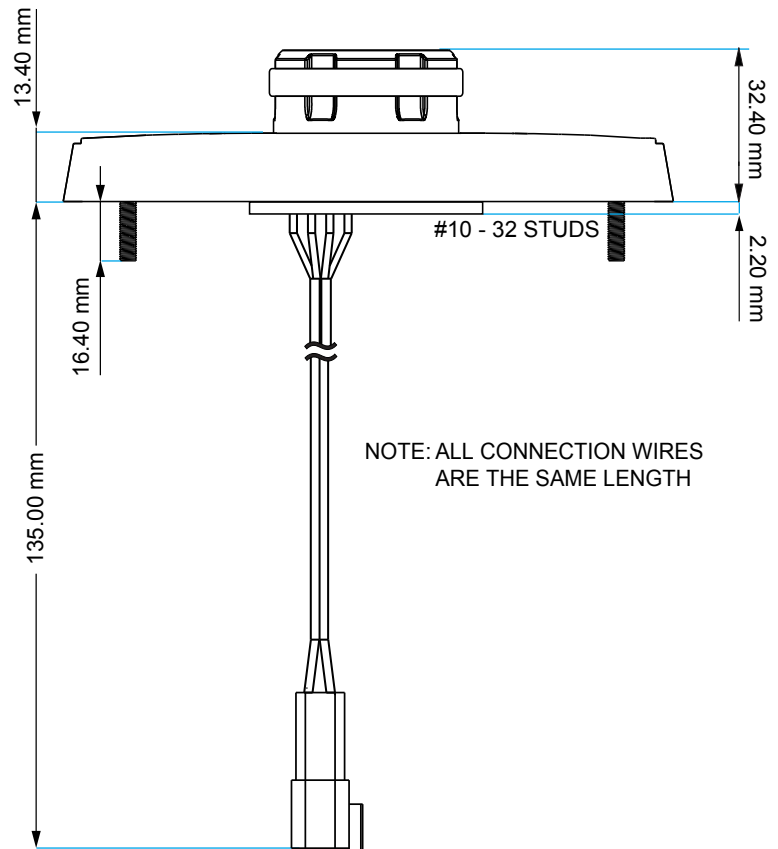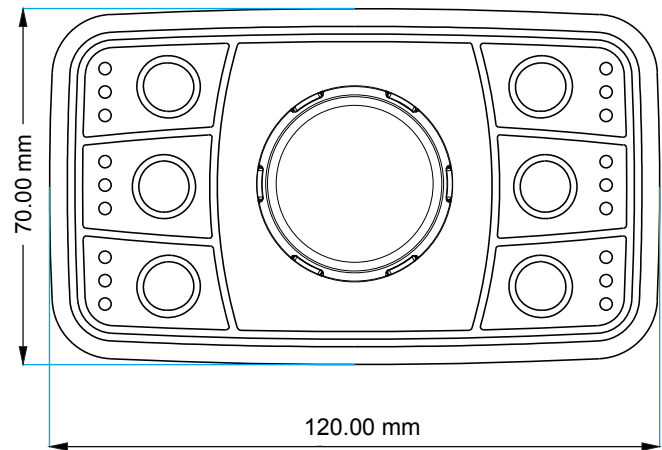- Blue/orange LED indicators
- J1939 Communication
- RS485 Communication

SPECIFICATIONS FOR STANDARD KEYPADS

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

MECHANICAL	
Connector	Deutsch DTO4-4P
Switch Life	3 million operation minimum
Encoder pushbutton life:	1 million operations minimum
Encoder rotation life:	100.000 cycles minimum
Mounting Studs	#10-32 CDA-510 phosphor bronze, electroplated right tin
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 ASTMB117
Chemical Resistance	Deet, Engine Cleaner, Isopropyl Alcohol, Suntan Lotion, Multi-Purpose Cleaner, Orange Citrus Cleaner
Ingress protection Rating	IP54

120.00 mm
70.00 mm
13.40 mm
32.40 mm
2.20 mm
16.40 mm
135.00 mm
#10 - 32 STUDS

NOTE: ALL CONNECTION WIRES ARE THE SAME LENGTH

84.50 mm
5.00 mm Ø
50.00 mm Ø
18.50 mm
CABLE OUT

blink
M A R I N E