

Blink Keypad Pro Series Tips

Keypad Basics

The Identifier 18 --> Default Keypad ID (cannot be changed)

EF --> Message is made addressable in PDU Format

FF --> broadcast messages to no specific destination address

21 --> Source address of the keypad default

h --> hexadecimal value

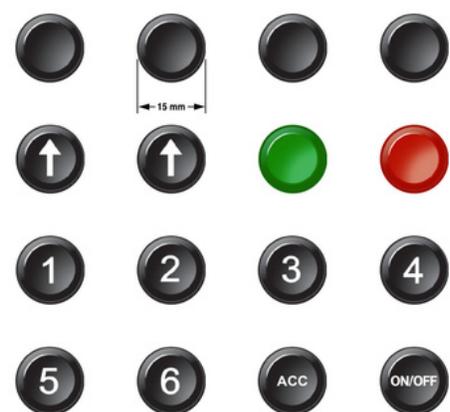
Ext means that the message format is 29 bits instead of 11 bits.

The Identifier is basically a CAN Id which in this case has a source address (21 - keypad) , destination address (FF - any) --> Sending a message FROM the keypad TO the control unit

In case of Identifier 18EF2100h where destination address (21 - Keypad) , source address (00 - control unit) --> Sending a message TO the keypad FROM the control unit.

You can change the Destination address and Source address as you like.

The default keypad address is 21h.



Difference between a J1939 and a CANOpen in Blink Keypads:

	CANOpen	J1939
Identifier length	11 bit	29bit
Baud rate available value	125kbit/s 250kbit/s 500kbit/s 1000kbit/s	250kbit/s 500kbit/s
CAN address available range	01h – 7Fh (1-127)	01h – FDh (1-253)
LED indicator colors	Red Green Blue Orange Cyan Magenta White/light blue	Red Green Blue Yellow Cyan Magenta White/light blue Orange Lime

	CANOpen	J1939
LED indicator state	<p>OFF</p> <p>Solid ON</p> <p>Blink</p> <p>Alternate blink between two colors</p>	<p>OFF</p> <p>Solid ON</p> <p>Blink</p> <p>Alternate blink between two colors</p>
LED/Backlight brightness level	00h-3Fh (0 – 100%)	00h – 3Fh (0 – 100%)
Backlight colors	<p>Red</p> <p>Green</p> <p>Blue</p> <p>Yellow</p> <p>Cyan</p> <p>Magenta</p> <p>White/light blue</p> <p>Orange</p> <p>Lime</p>	<p>Red</p> <p>Green</p> <p>Blue</p> <p>Yellow</p> <p>Cyan</p> <p>Magenta</p> <p>White/light blue</p> <p>Orange</p> <p>Lime</p>
Address claim at boot	Not available	Available on request
Heartbeat	Available on request (10ms – 65s)	Available on request (50ms – 2540 ms)

	CANOpen	J1939
Keys message periodic transmission	Available on request (10ms – 65s)	Available on request (50ms – 2540 ms)
Message transmission type	Event-driven Synchronous	Event-driven
Reset to the factory settings	YES	NO

FAQs

If a key is pressed on the keypad, does it send out multiple CAN messages as long as the button is pressed or just one message per press?

The message is transmitted when the key changes its status: e.g., until you keep pressed a key one message is transmitted, when you release it another message is transmitted.

If no keys are pressed are there any messages being sent?

If the transmission is set on-event, no message is transmitted. If you set the periodic transmission or the heartbeat, a periodic message is transmitted regardless a key is pressed or not.

What is the default J1939 speed setting? Is it 250 kbit/s or 500 kbit/s? What is the industry standard?

The default baud rate value is 250kbit/s.

If I send a message to the keypad is there an acknowledgment reply?

In our firmware in J1939 no acknowledgment reply is transmitted.