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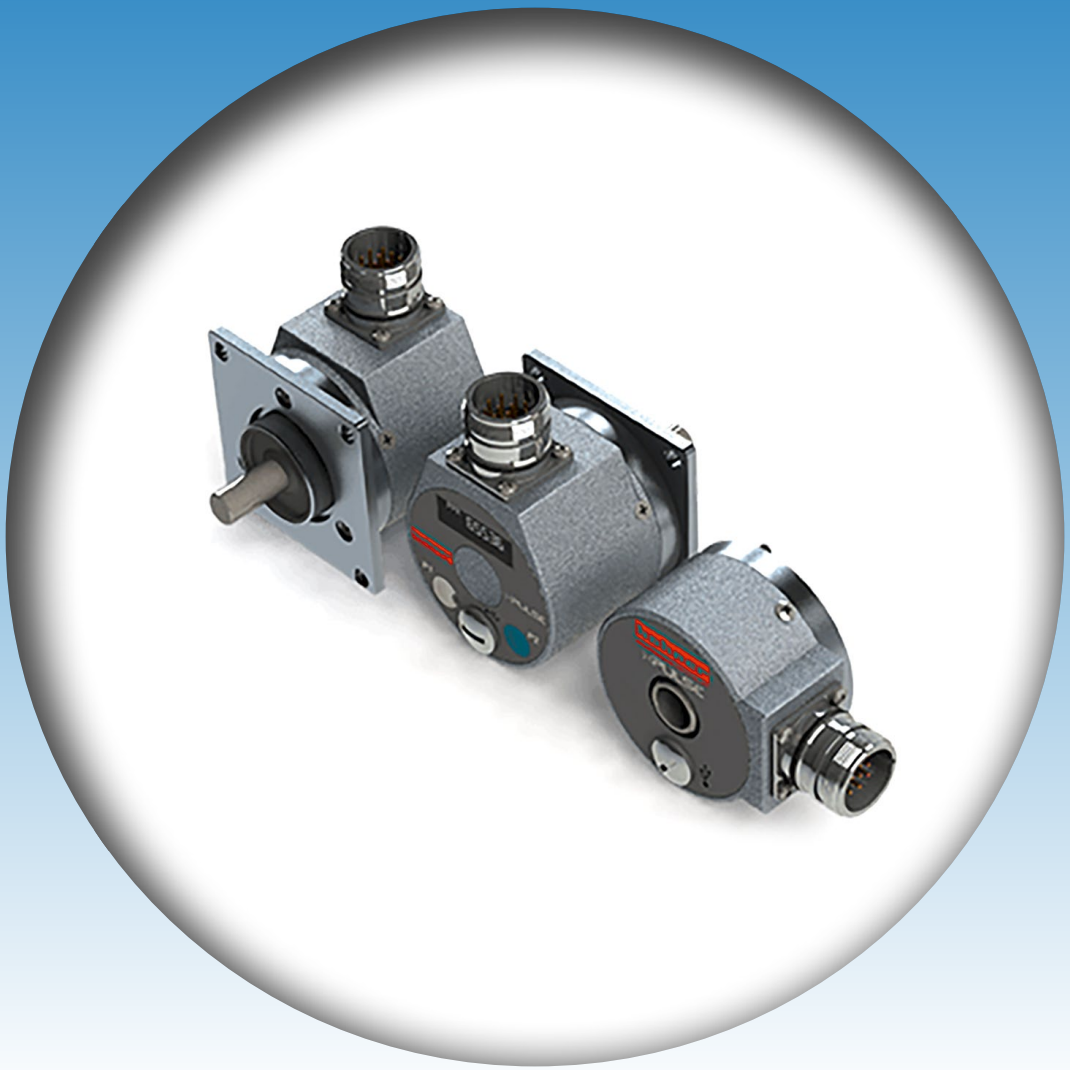
User's Manual

)-(PULSE

Incremental Programmable Encoder



- Universal encoder interface
- Encoder outputs A, B, Z and /A, /B, /Z
- Power supply 5 - 30 volts DC

Your partner for standard and special designs
- precise, reliable and fast -

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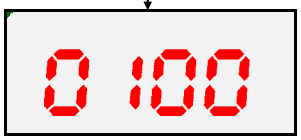
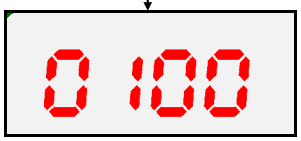
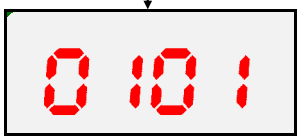
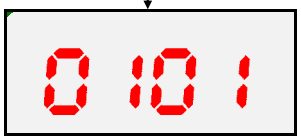
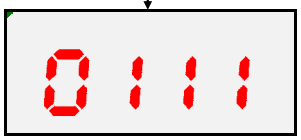
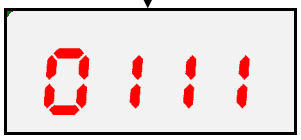
Operating Instructions

RESOLUTION PROGRAMMING – Buttons procedure (start after Power Up)

#		Note
0		Encoder ON. Display off.
1	**P1 + P2**	Push together P1 and P2 button until display on
	2"	
2		Display show currently encoder resolution
3	**P1**	Push P1
4		The first digit (the right most) start to blinks.
5	**P2**	Push P2
6		Blinking digit value increment by one by each P2 push.
7	**P1**	Push P1
8		The second digit start to blinks.
9	**P2**	Push P2
10		Blinking digit changes increment value by one by each P2 push.
11	**P1**	Push P1
12		The third digit start to blinks.

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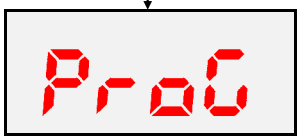
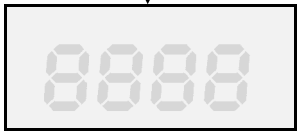
RESOLUTION PROGRAMMING – Buttons procedure

13	**P2**	Push P2
14		Blinking digit value increment by one by each P2 push.
15	**P1**	Push P1
16		Last digit start to blinks.
17	**P2**	Push P2
18		Blinking digit value increment by one by each P2 push.
19	**P1**	Push P1
20		Selected resolution ready to be programmed into encoder
	2"	
21		After 2" chose to program (P1) or not (P2)? If not, jump to point 2.
22	**P1**	Push P1
	8"	
23		Wait for about 8" until display show "done". Selected resolution is now programmed into encoder
	2"	
24		Automatically, after 2", display show programmed resolution (point 2)
	20"	
25		Automatically, after 20", display switch off.

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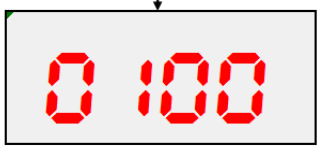
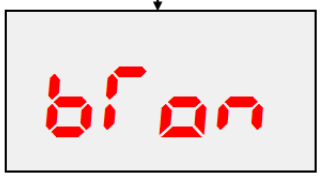
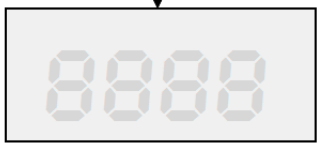
RESOLUTION PROGRAMMING – Bluetooth procedure

1. Install ›‹PULSE - Android App:
   - Save apk file on smartphone memory.
   - Go to phone Settings → Security and enable “App installation from unknown source”. (menu depend by phone model and brand).
   - Go back to apk file on smartphone memory and open it.
   - Ignore all warning about using unknown source app and install.

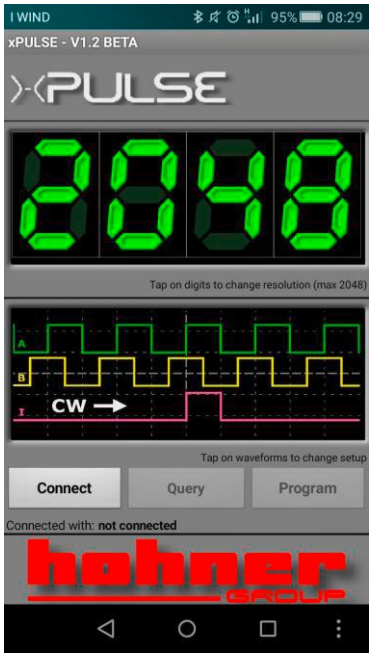
2. Pairing ›‹PULSE Encoder:
   - Power Up Encoder.
   - Go to Phone Bluetooth Settings.
   - Search for new Bluetooth devices.
   - Pair with founded ›‹PULSE Encoder, standard PIN code “1234”

3. Enable ›‹PULSE Encoder to connect to Android App:
   - Power Up Encoder.

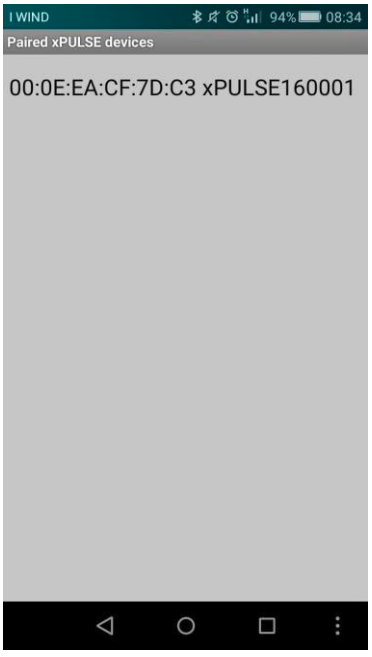
#		Note
0		Encoder ON. Display off.
1	**P1 + P2**	Push together P1 and P2 button until display on
	↓ 2"	
2		Display show currently encoder resolution
3	**P2**	Push P2
4		Encoder Bluetooth is on. Use xPulse App to connect to encoder. Flashing led mean encoder Bluetooth ready but not connected to App. Fixed on led mean encoder connected.
	↓ 60"	
5		Automatically, after 60", display and BT switch off.

RESOLUTION PROGRAMMING – Bluetooth procedure

4. Open ›(PULSE Android App



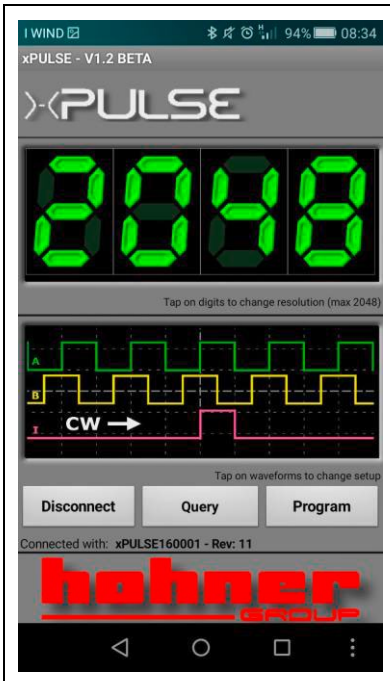
Touch on "Connect" to connect to ›(PULSE Encoder



Touch on requested ›(PULSE Encoder

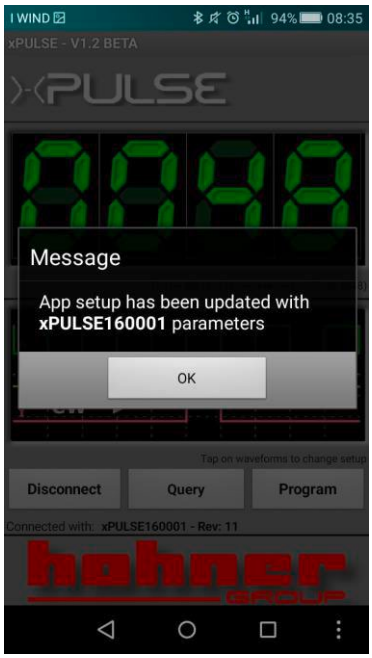
Nest message show Encoder ID and Firmware revision.

"OK" to close message.



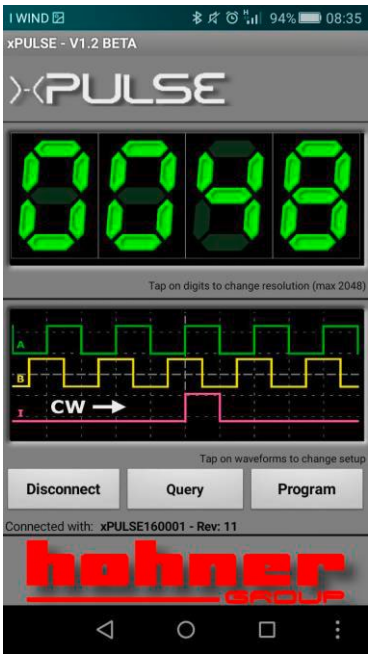
Touch "Query" to query current programed ›(PULSE Encoder parameters

RESOLUTION PROGRAMMING – Bluetooth procedure



Nest message inform that Encoder Parameters have been updated.

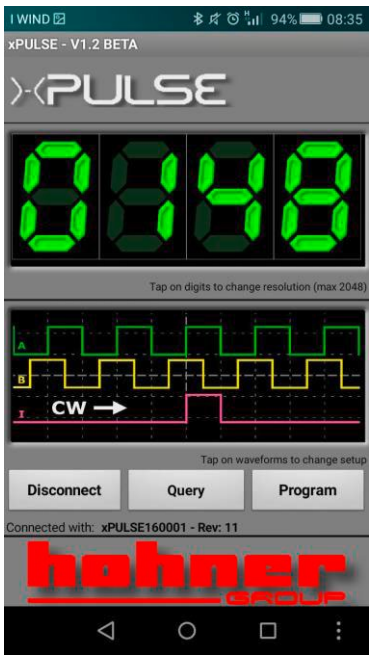
"OK" to close message.



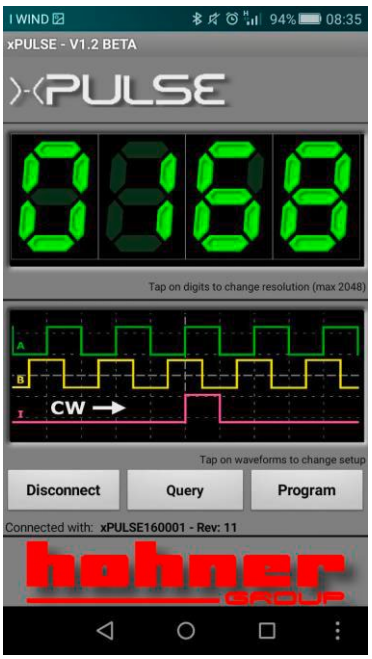
Now App is updated with Encoder parameters.

Touch resolution digits to change resolution.

Example: touch third digit to switch from 0048 to 0 148

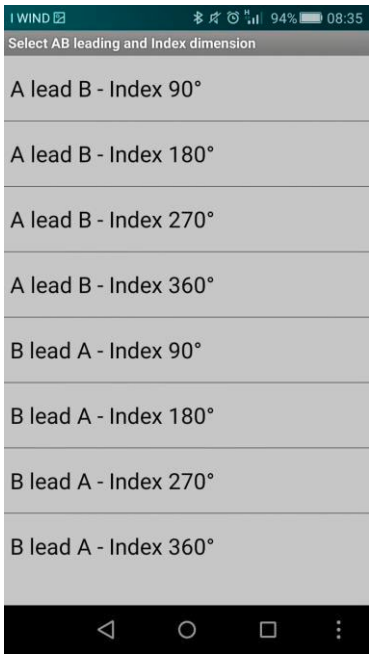


Example: Twice touch on second digit to switch from 0 148 to 0 168

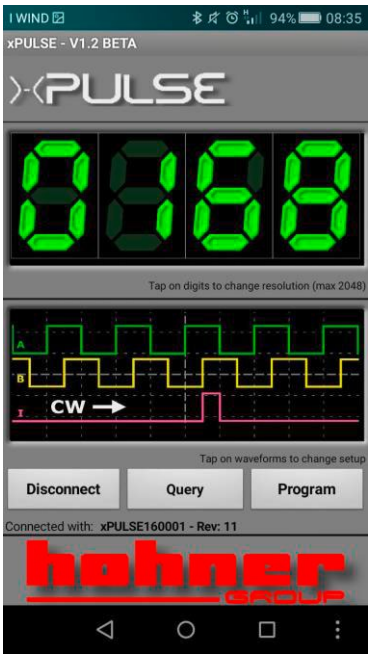


Touch on Waveforms picture to change channels leading and Index width

RESOLUTION PROGRAMMING – Bluetooth procedure

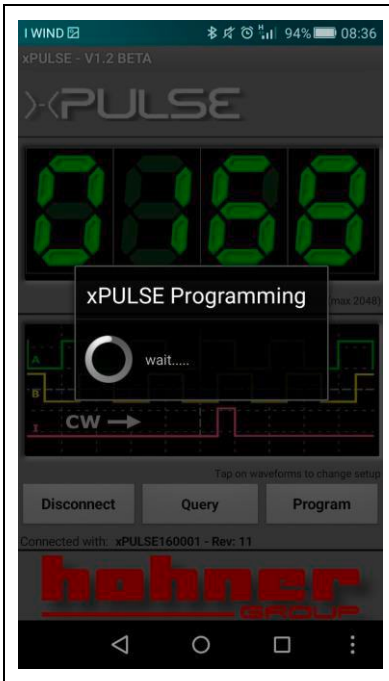


Touch on desired leading/Index arrangement

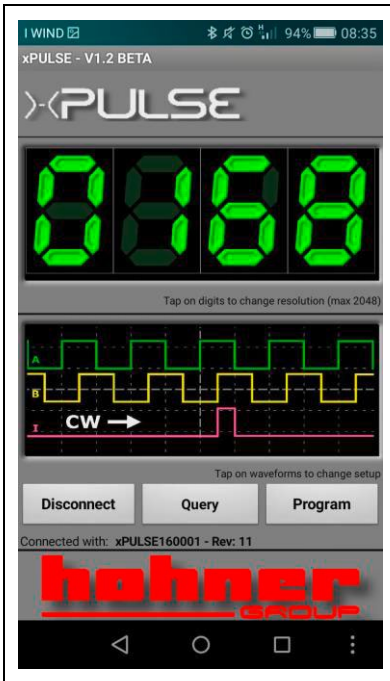


Waveforms picture is updated respect new leading and Index.

Touch "Program" to starto Encoder programming



Wait until programming message disappear.



Encoder is now programmed with selected resolution, leading and Index

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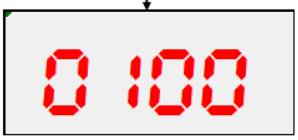
EXTRA FEATURES – Angle shaft display procedure (start after Power Up)

#		Note
0		Encoder ON. Display off.
1	**P1 + P2** 2"	Push together P1 and P2 button until display on
2		Display show currently encoder resolution
3	**P2**	Push P2
4		Encoder Bluetooth is on. Use xPulse App to connect to encoder. Flashing Green led mean encoder Bluetooth ready but not connected to App.
5	**P2**	Push P2
6	 60"	Display show shaft angle. Resolution 0,1°
7		Automatically, after 60", display and BT switch off.

hohner

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Hohner Elektrotechnik GmbH
Gewerbehof 1 · 59368 Werne
Telefon 02389 - 9878-0 · Telefax 02389 - 9878-27
info@hohner-elektrotechnik.de · www.hohner-elektrotechnik.de