


Document	Version	Date	Visa	
V081_Planken_KannMotionReleaseNotes	V0.8.1	02.03.2018	MZI	

This document describes changes between V0.7.1 to V0.8.1. If you are coming from an older version please refer also to earlier release notes.

1 Release Notes KannMotion, StepperConfigTool - V0.8.1

Title	Group	Description
New "WAIT ON" command	<i>New / Change</i>	The "WAIT ON INPUT" command turns into the more general "WAIT ON" command. The new command contains some more parameters and gives option to select the type of event (input or command), the number of this eventtype and the desired value. Now it's possible to select the digital state of an input as event trigger (OFF, ON, POS. EDGE, NEG. EDGE).
Backlash configuration	<i>New feature</i>	In advanced mode backlash compensation can be configured.
Enhancement of "User Commands"	<i>Improvement</i>	The range of the possible "User Commands" is now extended on values from 1 to 256.
Forced motor update	<i>Improvement</i>	The COM-Port is now selectable in the menu. This allows to update a motor that doesn't respond anymore (actually w. NEMA34 board only).
Shortest path	<i>New feature</i>	New Type "Shortest path" for sequence command "GO TO POSITION". Calculate the shortest path to the desired position with response to the changed parameter "Gear transmission ratio".
Gear transmission ratio	<i>Change</i>	Defines the transmission of a used gear to enable a more convenient handling of the motor.
NEMA34 controller included	<i>New</i>	New controller PCB type support integrated

2 Release Notes KannMotion, PCB-Firmware NEMA24 - V0.8.1

Title	Group	Description
Set Home with save	<i>BugFix</i>	Depending on magnets position @ Home position, the storage of 0 was made wrong
New "WAIT ON" command	<i>New / Change</i>	The "WAIT ON" command has more parameters. First defines the type of event (input or command) to wait on, second defines the number of this eventtype, third defines the value (only input-events). Now it's possible to select the digital state of an input as event trigger (OFF, ON, POS. EDGE, NEG. EDGE).
Backlash configuration	<i>New feature</i>	The "GO TO POSITION" command is extended with a backlash compensation.
Enhancement of "User Commands"	<i>Improvement</i>	The range of the possible "User Commands" is now extended on values from 0 to 255 (8 Bit).
Shortest Path	<i>New feature</i>	It's a new type of the "GO TO POSITION" command.
Parameter ID=35	<i>Change</i>	Meaning of parameter has changed to gear factor


3 Release Notes KannMotion, PCB-Firmware NEMA17 - V0.8.1

Title	Group	Description
Set Home with save	<i>BugFix</i>	Depending on magnets position @ Home position, the storage of 0 was made wrong
New "WAIT ON" command	<i>New / Change</i>	The "WAIT ON" command has more parameters. First defines the type of event (input or command) to wait on, second defines the number of this eventtype, third defines the value (only input-events). Now it's possible to select the digital state of an input as event trigger (OFF, ON, POS. EDGE, NEG. EDGE).
Backlash configuration	<i>New feature</i>	The "GO TO POSITION" command is extended with a backlash compensation.
Enhancement of "User Commands"	<i>Improvement</i>	The range of the possible "User Commands" is now extended on values from 0 to 255 (8 Bit).
Shortest Path	<i>New feature</i>	It's a new type of the "GO TO POSITION" command.
Parameter ID=35	<i>Change</i>	Meaning of parameter has changed to gear factor

4 Detailed Changing Information

4.1 Conversion of old settings

The new version can handle older settings and sequence files please check actual manual chapter 7.4.

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5 Known unsolved problems

Example...

6 Appendix

6.1 Table 1, Device Configuration Parameter's

New-ID		Parameter	NEMA17	NEMA24	NEMA34
0	0x00	MOTOR_VELOCITY_MAX	✓	✓	✓
1	0x01	MOTOR_ACC_MAX	✓	✓	✓
2	0x02	MOTOR_DEC_MAX	✓	✓	✓
3	0x03	MOTOR_CURRENT_MAX	✓	✓	✓
4	0x04	MOTOR_VOLTAGE	✓	✓	✓
5	0x05	MOTOR_RESISTANCE	✓	✓	✓
6	0x06	MOTOR_INDUCTION	✓	✓	✓
7	0x07	MOTOR_KE_CONSTANT	✓	✓	✓
32	0x20	RS232_BAUDRATE	✓	✓	✓
33	0x21	OUTPUT_READY	✓	✓	✓
34	0x22	POSITION_METHOD	✓	✓	✓
35	0x23	METHOD_CIRCLE_GEARFACTOR	✓	✓	✓
36	0x24	ENCODER_AVAILABLE	✓	✓	✓
37	0x25	POSITION_TOLERANCE	✓	✓	✓
38	0x26	BACKLASH_COMPENSATION	✓	✓	✓
64	0x40	OUTPUT_CONFIGUARTION	✓	✗	✓
65	0x41	INPUT_ANALOG_FILTER	✓	✓	✓
66	0x42	INPUT_ANALOG_HYSTERESIS	✓	✓	✓
67	0x43	DIGITAL_INPUT_THRESHOLD_HIGH	✓	✗	✓
68	0x44	DIGITAL_INPUT_THRESHOLD_LOW	✓	✗	✓