

KINGSTAR 3.8

MOTION RELEASE NOTES

KS-DOC-X64-0015-R22

IntervalZero



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KINGSTAR Motion 3.8 release notes

New features

The following new features and improvements are available in this release:

NOTE: Reference numbers, [KS-<XXX>], are for internal tracking purposes.

- Add new supported hardware:
 - Servo drives
 - ESTUN ProNet Summa ED3S [KS-1804]
 - Stepper drives
 - Fastech Ezi-SERVO II 4X EtherCAT [KS-1845]
 - Fastech Ezi-Step II EtherCAT [KS-1845]
 - EtherCAT I/O modules
 - Beckhoff EL3751 [KS-1736]
 - Fastech Ezi-IO EtherCAT [KS-1845]
- Add velocity and path blending. See Concepts > Blend movements. [KS-1830]
- Add KINGSTAR LogicLab > EtherCAT cycle time.

Updates

- Support RTX64 3.7.1. [KS-1900]

Fixes

- KINGSTAR Demo crashes if the axes are already enabled. [KS-1419]
- **MC_MoveVelocity** jumps to target velocity without proper interpolation when **ContinuousUpdate** is TRUE, if the velocity is the same as the last target velocity but the direction is opposite. [KS-1775]
- ControlMode is -1 if the following steps are done: [KS-1803]
 1. Enable Modes of Operation using **EnableSynchronizedControlMode**, so the control mode can be changed through PDO.
 2. Connect to a drive that only allows the control mode to be changed after servo-on, such as KINCO FN880 or OMRON R88D-KN04H-ECT.
 3. Get the control mode before servo-on. The value is -1.
- Velocity jumps may exist at the conjunction of two adjacent commands in group motion. [KS-1880]
- In KINGSTAR LogicLab, **MC_Jog**, **MC_Inch**, **MC_GroupJog**, and **MC_GroupInch** may display a **WrongQueueIndex** if the **Forward** or **Backward** signal is TRUE in the first cycle of the function block. [KS-1933]
- If "Rising edge" is used in **MC_ProbeTrigger**, **MC_TouchProbe**'s **Done** will instantly become TRUE when **MC_TouchProbe** is executed. This causes Homing Latch not to work. [KS-1949]
- Creating KSLogSpace shared memory causes a blue screen error. [KS-1956]
- An axis and axis group's states are wrong when a group motion command has an error during initialization. [KS-1957]
- In KINGSTAR LogicLab, the indexes of axes or I/O modules are not changed after modifying them from the user interface. [KS-1962]
- **MC_MoveLinearRelativeEx** cannot move simulated axes even if there is no hardware alarm. [KS-1979]

- The definitions of **AuxPoint** and **EndPoint** of **MC_MoveCircularRelative**, **MC_MoveCircularAdditive**, **MC_MoveHelicalRelative**, and **MC_MoveHelicalAdditive** in the `mcRadius` mode are not clear. [KS-1984]
- The interpolation for group motion may stuck at ultra-low velocity. [KS-1985]
- In KINGSTAR LogicLab, if German decimal and thousands separators are used, the numbers can't be parsed correctly and the result is wrong. [KS-1996]
- The RTX64 sample has incorrect content. [KS-2005]

Get support

KINGSTAR offers a number of support options for KINGSTAR users, including third-party, online and phone support.

Third-party support

If you are a customer who purchased a KINGSTAR product through a third-party reseller, contact the reseller for support.

Online support

The KINGSTAR Customer Support web page is located at:

<http://kingstar.com/support/>

The KINGSTAR support web pages provide electronic access to the latest product releases, documentation, and release notes. You can access the online support ticketing system to submit issues or questions.

Before calling technical support

Please have the following information ready before calling KINGSTAR Technical Support:

The version number of your RTX64 and KINGSTAR software

To obtain the RTX64 version number:

1. Click **Start > RTX64 3.7.1 Runtime > Control Panel**.
2. In the **RTX64 3.7.1 Control Panel**, record **Version** shown in the **Runtime Information** area.

To obtain the KINGSTAR version number:

1. In **Windows Explorer**, browse to `C:\Program Files\IntervalZero\KINGSTAR\bin`.
2. click the `ksm64.rtdll` file, and right-click the same file again.

3. On the shortcut menu, click **Properties**.
4. In the **ksm64.rtdll Properties** dialog box, click the **Details** tab, and record **Product version**.

Phone support

For technical support related to installing and using KINGSTAR, please call technical support at this number:

+886-2-2556-8117

Hours are Monday – Friday from 9:30 to 17:30, UTC+08:00, excluding holidays.