



# Security Manual

KannMOTION



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# 1 How to use this Manual

This manual is an integral part of all documents concerning the KannMOTION drive and control.

This manual contains important notes and information about the various operating phases of the Motor Driver KannMOTION.



For trouble-free, safe operation and warranty claims **read this manual** before using the product and follow its instructions.

The operator of the machine is obliged to ensure that anyone who carries out works on the KannMOTION reads this instruction manual before carrying out any work.

In addition to this manual, special contractual agreements and technical documents apply to special versions.

## 1.1 Liability

The manufacturer does not accept any liability for damages due to non-observance of this manual.

## 1.2 Warning notices

In this manual, the degree of potential hazards is indicated by **signal words**.

The warning notices must be carefully observed in order to avoid bodily injuries or material damage.

The signal word indicates the level of danger and severity of injury or property damage that arise if the warning instructions and safety information are not observed.

A different color is assigned to each signal word.

The four signal words ("danger", "warning", "caution", "notice") in combination with its specific color indicates the severity of the risk and carries the following meaning:

## Personal injuries

	<b>Danger!</b> Indicates danger with a <b>high risk</b> . This can result in <b>serious injury or even death</b> if not avoided.
	<b>Warning!</b> Indicates danger with a <b>medium risk</b> . This can result in <b>serious injury or even death</b> if not avoided.
	<b>Caution!</b> Indicates danger with a <b>low risk</b> . This can result in <b>minor or moderate injury</b> if not avoided.

## Material Damage








### Notice!

Can damage the product or the environment.  
No personal injuries possible.

## 1.3 Warning signs

Below you find the warning signs used in this manual and their meaning:

	General warning sign
	Warning of suspended loads
	Warning of hand injuries
	Warning of electrical voltage
	Warning of hot surface

## 2 General Security

- ▶ Read these safety instructions carefully. They contain important information to protect users from injuries and to prevent damage to the equipment.

### 2.1 Specialized Personnel

Only specially trained and authorized personnel are allowed to carry out any work on the KannMOTION motor driver and its attached control. This includes all phases of the products' life and especially work on electrical installations and equipment.

The operator of the machine, in which the KannMOTION is installed, is obliged to ensure that anyone who carries out works on the KannMOTION reads this instruction manual before carrying any work.




### 2.2 Intended Use

The KannMOTION is a motor driver with an attached control and software is an incomplete machine which is designed for installation in a higher-level system.

The KannMOTION is used for the control and regulation of various motors. They can be programmed and controlled by commands as well as by an independent sequence program.

The KannMOTION may only be used for industrial applications and in an industrial environment. In other environments, there may be problems ensuring electromagnetic compatibility due to conducted or radiation-induced disturbances.

The KannMOTION may only be operated within the defined operating limits.

	<b>Notice!</b>
	Operating outside the range limits. Fire, malfunction, and product damage are possible.
	 Do not operate the product outside of the specified operating range limits.
	 Only use the product after checking the operating ranges.




## 2.3 Improper Use

Any other use than described above is an improper use. Adlos AG or KOCO MOTION GmbH decline all liability in case of improper use.

The KannMOTION is **not designed for** use in hazardous systems or **medical facilities** without additional monitoring or safety devices.

**Any modifications** that affect the safety of the product **are prohibited**. Deviating applications require the approval of Adlos AG or KOCO MOTION GmbH (See [contact details](#) on the last page of this document).

### 2.3.1 Improper Environment

	<b>Notice!</b>
	<p>Flammable, explosive or corrosive gas: The product does not have any explosion proof construction. This can result in fire, explosion or corrosion.</p> <p> Do not use the product in an environment where there is flammable, explosive or corrosive gas.</p> <p> Remove material that is not required and unnecessary objects from the workspace.</p>


### 2.3.2 Do not repair or maintain

Maintenance and repairs on the product are prohibited. The KannMOTION does not require any maintenance.

Do by no means disassemble the motor in order to reassemble. If there are unusual noises coming from the motor, put the motor out of operation and dismount the motor (See [contact details](#) on the last page of this document).

The motor must not be repaired by the operator. The motor does not contain any parts that could be repaired by the operator.

If the motor needs repairing:

-  Dismount it and send it back to the producer (See [contact details](#) on the last page of this document).

## 2.4 Instructions on Commissioning

The KannMOTION is designed for the incorporation in a higher-level system. The initial start-up is not allowed until the installation has been finished and checked.



The producer of the higher-level system is responsible for the assessment of risks, hazards and potential faults.

The incomplete machine KannMOTION must only be commissioned after it has been assured that the machine, into which this incomplete machine is to be incorporated, fully complies with the regulations of the Machinery Directive 2006/42/EC.




# 3 Situational warnings

In this chapter you find situational warnings when **configuring the motor and driver**.

## 3.1 Motor Rated Current

	<b>Caution!</b>
	<p>Hot surface</p> <p>At high rated currents the controller and motor can become very hot.</p> <p>Ignoring this warning may lead to serious burns to the skin.</p> <p> No direct contact with the control or the motor</p>


## 3.2 <Set Max Torque>


	<b>Danger!</b>
	<p>The motor doesn't get not enough current.</p> <p><b>Suspended loads can fall down.</b> This can result in serious injury or even death if not avoided.</p> <p> Do not execute this command when heavy loads are on the machine.</p> <p> Ensure that no persons are in the danger zone while executing the command.</p>



## 4 Disassembly

Dangers when disassembling:

	<p><b>Warning!</b></p> <p>Sudden starting of motor! Fingers can be cut off. Damage to the product.</p> <ul style="list-style-type: none"><li><input type="checkbox"/> Do not disassemble, alter (including any changes to the circuit board), or repair the product.</li><li><input checked="" type="checkbox"/> Switch off the power supply before carrying out any maintenance work.</li><li><input checked="" type="checkbox"/> Ensure that the power supply cannot be turned on accidentally.</li><li><input checked="" type="checkbox"/> Work on electrical installations and equipment must only be carried out by authorized personnel.</li></ul>
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	<p><b>Warning!</b></p> <p>Electrical voltage! Electric shock. Damage to the product.</p> <ul style="list-style-type: none"><li><input type="checkbox"/> Do not disassemble, alter (including any changes to the circuit board), or repair the product — this could result in injury or product failure.</li><li><input checked="" type="checkbox"/> Switch off the power supply before carrying out any maintenance work.</li><li><input checked="" type="checkbox"/> Ensure that the power supply cannot be turned on accidentally.</li><li><input checked="" type="checkbox"/> Work on electrical installations and equipment must only be carried out by authorized personnel.</li></ul>
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## 5 Disposal

For the disposal follow the respective local or national legal regulations.

## Contact address

### Switzerland/Liechtenstein

#### Adlos AG

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