

INSTRUCTIONS

Products concerned: Controller cards: KW-R07 / 17 / 27
Parts number: 0807, 0873, 0957, E1036, E1131, E1132
Peripheral drives: iC/ iX/ iDT 5 with safety
Parts number: E1134, E1138, E1140, E1142, E1143, E1267
Software version: all safety firmware releases
(up to and including version 1.07)



Description of product anomaly:

An anomaly was observed when deleting a plausibly signaled safety reaction.

All safety functions work. None of the safety functions shows a malfunction or deficiency.

Basic prerequisites for the anomaly when deleting the safety reaction:

- At least one motion monitoring system has been mandated
- Motion monitoring reports a violation and the safety reaction then follows

This is always "reliably detected" and carried out in terms of functional safety.

When deleting the safety reaction, the following conditions must also be fulfilled, for the unexpected behavior to occur.

Provided

- this motion monitoring remains mandated
- and additionally a stop function (SS1, SS2 or STO) is mandated
- and at the same time the previously received error message is acknowledged, a later renewed command for motion monitoring remains without effect.

Consequently, motion monitoring is neither acknowledged on the "safe output" nor on the associated status bit.

Peripheral conditions to be tested:

- Is the commissioning of a safety function withdrawn after it has been actuated?
- In the fault state is the triggering of an additional stop function omitted?
- The acknowledgment at the "Safe output" or in the FSoE status is taken into account?

If any one of these questions is answered with "yes" there is no risk.

What do you as a machine/system constructor have to do to ensure the safety of your machine:

1. Check whether, after a safety reaction, your machine control evaluates it as "in an unsafe state".
Reset the assignment of all safety functions and delete the reported errors and then recommission the safety function
2. Check your evaluation of the acknowledgement signals in this situation.
3. If necessary, inform your customers.

If you have any questions, please don't hesitate to contact AMK.

We thank you for your understanding and sincerely apologize for any inconvenience.

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