



Retiring Cam RKM017

Operating Instructions



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1 General information

In these operating instructions you will find:

- information on installation, adjustment, maintenance and disposal of the retiring cam RKM017
- safety information
- assistance in case of malfunctions

Read these operating instructions carefully before you start using the retiring cam RKM017. Pay special attention to the safety instructions, as the failure to comply with them might result in severest injuries, environmental damage or damage to the device and to machines.

Keep these operating instructions in a safe and legible condition near the retiring cam RKM017. Only pass on the retiring cam RKM017 to third parties with these operating instructions.

1.1 Key words and warning symbols used

**Danger**

Indicates an imminent danger for life and health of persons.

**Warning**

Indicates a possibly dangerous situation. Disregarding this warning may result in death or serious injury. This advice additionally warns of risks for machine, material or environment.

**Attention**

Indicates possible minor personal injury due to neglect.

**Caution**

Indicates possible material damage when disregarding the instructions or gives an important advice for the function.

**Note**

Indicates general information on the handling or the product.

2 Brief description

2.1 Retiring cam RKMO17

Features and versions of the motor-driven retiring cam RKMO17:

| | |
|-----------------|---|
| features | <ul style="list-style-type: none"> • drive with maintenance-free three-phase motor • high actuation force up to 60 N • stroke 35 mm • energy-saving due to low power requirement of only 0.22 A holding current at 24 V • duty cycle of any length (100 % duty cycle) • hardly perceptible unlocking and locking of the landing doors due to low noise emission • all steel parts galvanised |
| versions | <ul style="list-style-type: none"> • RKMO17 - 230V <ul style="list-style-type: none"> - retiring cam RKMO17 with motor drive - with power supply unit for 100 V - 250 V AC / DC • RKMO17 - 48V <ul style="list-style-type: none"> - retiring cam RKMO17 with motor drive - with power supply unit for 48 V AC / DC • RKMO17 - 24DC <ul style="list-style-type: none"> - retiring cam RKMO17 with motor drive - 24 V DC • RKMO17 - 24AC <ul style="list-style-type: none"> - retiring cam with motor drive - 24 V AC |

3 Intended use

The retiring cam RKMO17:

- operates unlocking devices of landing doors in lift installations
- may only be used in a dry environment and outside EX-protected areas

Any other use is considered **improper** and may result in personal injury, environmental damage and / or property damage. In particular, the following are not permitted:

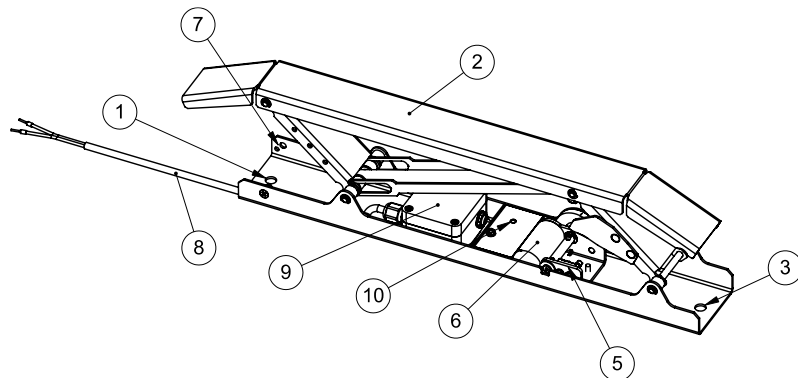
- repair, adjustment or modification of the retiring cam RKMO17

Hans & Jos. Kronenberg GmbH do not assume any liability for damages caused by:

- improper or incorrect use
- use of non-approved spare or accessory parts
- non-observance of this manual

4 Overview retiring cam RKM017

The retiring cam RKM017 is motor-driven and has the features and versions listed in chapter 2.1.



retiring cam RKM017* and its components

* Dimensioning and technical data can be found in chapter 8.

Components:

- | | |
|--|--|
| 1 upper fixing hole | 7 protective conductor terminal (optional) |
| 2 upper sliding rail | 8 connection cable |
| 3 lower fixing hole | 9 power supply unit |
| 5 limit switch (lower stroke limitation) | 10 LED display |
| 6 motor unit | |

4.1 Functional description

When the power supply is switched on, the electric drive starts and moves the sliding rail of the RKM017 retiring cam to its lower end position via a cable pull. This pulling movement simultaneously tensions the return spring.

The sliding rail remains in the lower end position as long as the power supply is switched on.

When the power supply is switched off, the return spring relaxes. The sliding rail leaves the lower end position in a damped manner and moves upwards to the position of the set stroke limit. During this stroke movement, the sliding rail actuates the unlocking device.

5 Installation

5.1 Mounting

Observe these specifications when mounting the retiring cam RKMO17:

preparatory activities

- Check whether the operating and control voltage of the lift installation correspond to the voltage specification on the type label of the retiring cam RKMO17.
- Plan the routing of the connection cable.
- Make sure that the planned routing of the connection cable:
 - keeps sufficient distance from moving parts and
 - the fixing points are chosen in such a way that the cable routing does not change during operation and that no disturbances can occur in the lift installation.

procedure



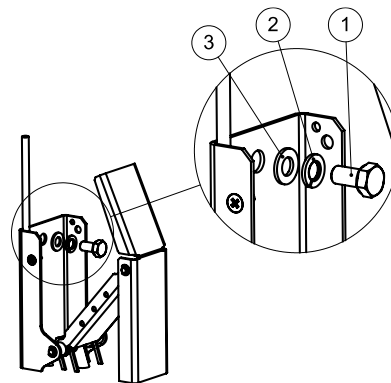
Caution - Observe the operating position of the retiring cam RKMO17!

The retiring cam RKMO17 may **only be installed vertically** and with the **motor downwards**!

Please note the information on the retiring cam.

- We recommend using the supplied mounting set for mounting the retiring cam RKMO17 on the car.
- Choose a mounting position for the RKMO17:
 - depending on the local conditions and
 - the components to be driven
- Make sure that all components that are driven by the retiring cam RKMO17 can be operated without error.
- Set the fixing holes according to dimensioning (see chapter 8).

fixing point above

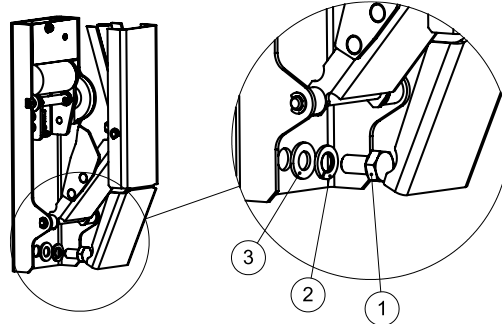


fixing point retiring cam RKMO17 above

Legend:

- 1 hexagon screw M8 x 16
- 2 spring washer
- 3 washer

fixing point below



fixing point retiring cam RKM017 below

Legend:

- 1 hexagon screw M8 x 16
- 2 spring washer
- 3 washer

5.2 Electrical connection



Danger – danger of death due to electrical current

Only a **qualified electrician** may connect the retiring cam RKM017 to a properly installed power supply line. In addition to the safety instructions in this manual, always follow the country-specific regulations for installation, safety and accident prevention.

When working on the retiring cam RKM017, always make sure that the power supply is switched off and secured against unintentional reconnection.

The electrical connection may only be carried out in a de-energised state!

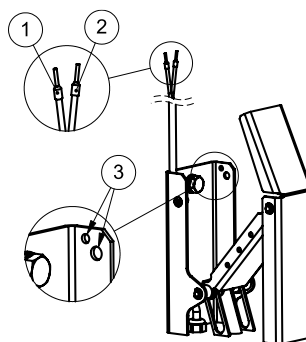


Warning – danger of crushing

When applying the power supply to the retiring cam RKM017, there is a risk of crushing due to the stroke movement of the cam.

Observe these specifications for the electrical connection of the retiring cam RKM017:

connection retiring cam



Explanations of the markings:

| | cable colour | variants | | | |
|---|-----------------|----------------------|-------|------|------|
| | | 230V | 48V | 24AC | 24DC |
| 1 | blue | N | ~ / - | ~ | - |
| 2 | brown | L | ~ / + | ~ | + |
| 3 | --- | grounding (optional) | | | |



Attention - Power supply RKM017 - 24DC!

The RKM017 - 24DC may only be operated with a regulated / stabilized DC power supply!

Do not connect the retiring cam RKM017 - 24DC to a pulsating DC voltage or a rectified AC voltage. There is the risk that voltage peaks will destroy the motor electronics.

If only a pulsating DC voltage or a rectified AC voltage is available at the installation, use the **RKM017 - 24AC variant**.

6 Initial operation



Warning – danger of crushing

When applying the power supply to the retiring cam RKMO17, there is a risk of crushing due to the stroke movement of the sliding rail.

6.1 Functional test



Observe this information for the functional test:



functional description




The function of the retiring cam RKMO17 is described in chapter 4.1.

legend of the LED display

The LED lights up:  red  green

The LED flashes:  red  green



The LED is off: 



The LED display on the retiring cam RKMO17 forms the basis for troubleshooting (see chapter 6.2.1).

LED display during error-free operation

During error-free operation, the LED display goes through the following sequence:

- The sliding rail moves towards the lower end position. 
- The sliding rail has reached the lower end position. 

tests

Check that






- the movement of the sliding rail is consistent over the entire stroke in both directions.
- all components that are driven by the retiring cam RKMO17 are actuated without error.
- the chosen cable routing cannot lead to malfunctions during operation of the lift installation.

6.2 Error diagnostics

6.2.1 Errors indicated by LED displays







The LED displays at the retiring cam RKMO17 form the basis in the error diagnostics:

legend of the LED display

| | | |
|--------------------|---|---|
| The LED lights up: |  red |  green |
| The LED flashes: |  red |  green |
| The LED is off: |  | |

Error case: The sliding rail does not tighten.






The following table describes the LED displays of the retiring cam RKMO17 in the above-mentioned error case:

| | | |
|-------------|---|--|
| → red LED |  | <u>Possible cause(s):</u> |
| → green LED |  | <ul style="list-style-type: none"> no voltage or voltage with reverse polarity* |
| | | <u>Measure(s):</u> |
| | | <ul style="list-style-type: none"> check voltage and if necessary polarity* |
| → red LED |  | <u>Possible cause(s):</u> |
| → green LED |  | <ul style="list-style-type: none"> voltage too low |
| | | <u>Measure(s):</u> |
| | | <ul style="list-style-type: none"> check voltage, regulated 24 V DC +/- 10% required* |
| → red LED |  | <u>Possible cause(s):</u> |
| → green LED |  | <ul style="list-style-type: none"> voltage irregular or too low |
| | | <u>Measure(s):</u> |
| | | <ul style="list-style-type: none"> check voltage, regulated 24 V DC +/- 10% required* |

* only at RKMO17 - 24DC

Error case: The retiring cam RKMO17 makes beating noises when tightening, the sliding rail does NOT reach the lower end position.

The following table describes the LED displays of the retiring cam RKMO17 in the above-mentioned error case:

| | | |
|-------------|---|--|
| → red LED |   | <u>Possible cause(s):</u> |
| → green LED |  | <ul style="list-style-type: none"> mechanics blocked or damaged, motor torque not sufficient |
| | | <u>Measure(s):</u> |
| | | <ul style="list-style-type: none"> check mechanics for faults and ease of movement, remove blockage if necessary |
| → red LED |  | <u>Possible cause(s):</u> |
| → green LED |  | <ul style="list-style-type: none"> mechanics blocked or damaged, supply voltage too low |
| | | <u>Measure(s):</u> |
| | | <ul style="list-style-type: none"> check the mechanics for faults and smooth operation, remove any blockages if necessary, check the supply voltage and ensure that it is correct |

6.2.2 Further error cases

The following table describes further error cases without a possible LED display:

| | |
|---|--|
| tightened sliding rail drops temporarily and then tightens again | <p><u>Possible cause(s):</u></p> <ul style="list-style-type: none"> • short power failure or voltage dip <p><u>Measure(s):</u></p> <ul style="list-style-type: none"> • Determine and eliminate cause of voltage dips, check switches, contacts, power supply, control, wiring and other consumers. |
| sliding rail makes beating noises when reaching the lower end position | <p><u>Possible cause(s):</u></p> <ul style="list-style-type: none"> • The end position is not recognised; the microswitch does not switch because the mechanism is bent or blocked. <p><u>Measure(s):</u></p> <ul style="list-style-type: none"> • Check microswitch and mechanics for faults, remove blockage if necessary. |

7 Maintenance, storage, transport, disassembly and disposal

7.1 Maintenance

We recommend at every recurring maintenance of the installation:

- remove dust and dirt - relubrication is not necessary
- carry out a visual inspection for damage or wear



Caution – Repair of a retiring cam RKMO17

A damaged and/or faulty retiring cam RKMO17 must not be repaired and must be replaced with an original assembly from the manufacturer.

The manufacturer's EU declaration of conformity expires for a repaired assembly.

7.2 Storage

Store the retiring cam RKMO17 in a clean and dry place.

7.3 Transport

We recommend that you transport the retiring cam RKMO17 in the retracted state. Fix this state with an appropriate transport lock.

7.4 Disassembly and disposal



Danger – danger of death due to electrical current

Only a **qualified electrician** may disconnect the retiring cam RKMO17 from a properly installed power supply line. In addition to the safety instructions in this manual, always follow the country-specific regulations for installation, safety and accident prevention.

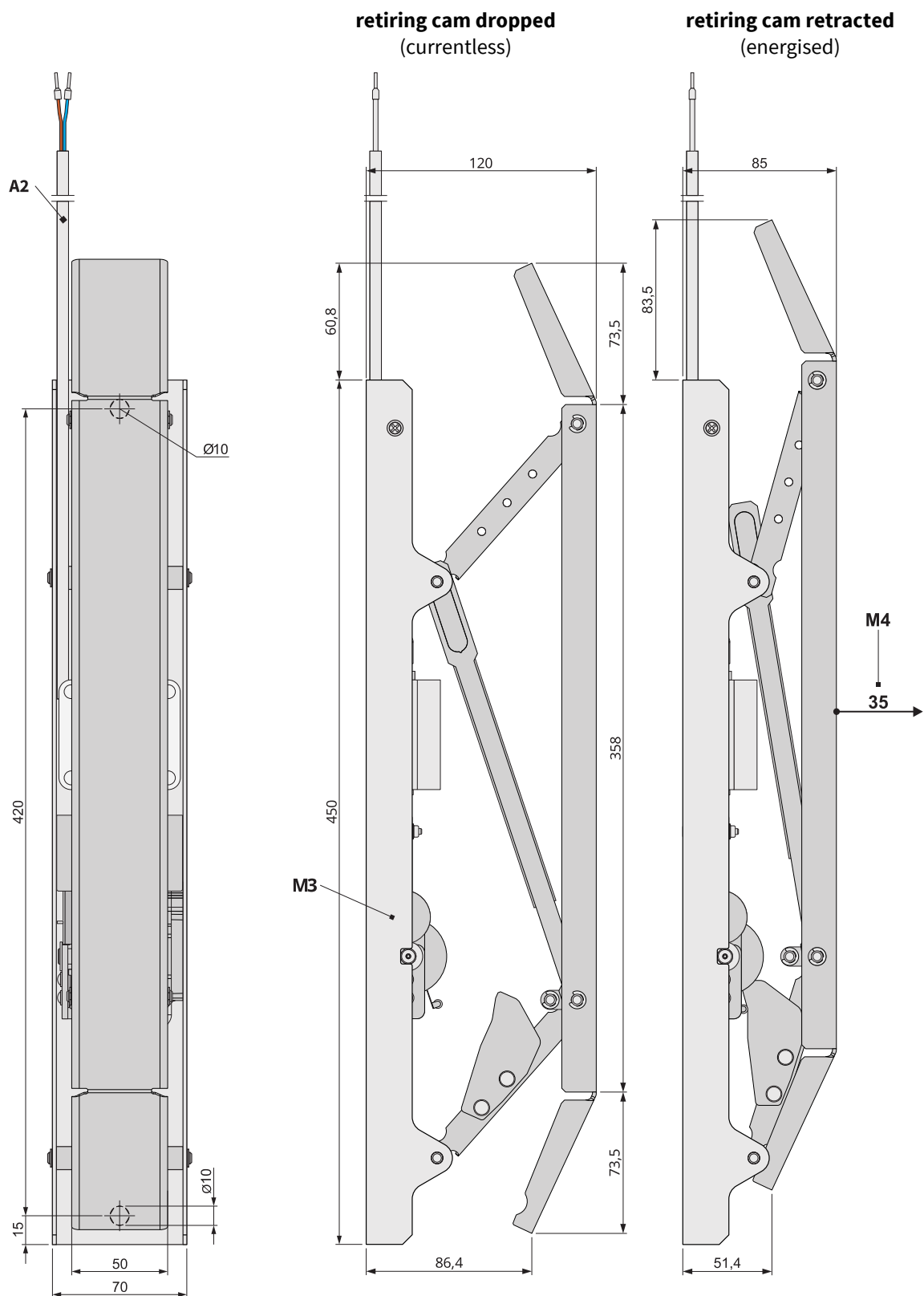
For all disassembly work on the retiring cam RKMO17, make sure that the power supply is switched off and secured against unintentional reconnection.

The electrical connection must only be disconnected when the device is de-energised!

Dispose the component in accordance with the national regulations.

8 Data sheet

8.1 Dimensionings RKMO17 (all variants)



A2 3 m connection cable

M3 customary position: motor drive below

M4 stroke 35 mm

8.2 Technical data

| | |
|--------------------------------|---|
| duty cycle | 100 % |
| total height | energised / retracted 85 mm currentless / dropped 120 mm |
| stroke | 35 mm |
| actuation force | 60 N |
| ambient air temperature | -10 °C up to +45 °C |
| customary position | vertical, motor below |

RKMO17 - 230V

| | |
|---------------------|--|
| nominal voltage | 100 V - 250 V AC or DC (rectified alternating voltage) |
| input current | max. 0.4 A at 230 V AC |
| connection | 3 m connection cable, 2 x 1 mm ² |
| level of protection | IP40, insulated |
| weight | 2.6 kg |

RKMO17 - 48V

| | |
|---------------------------|---|
| nominal voltage | 48 V AC or DC |
| admissible voltage range | 30 V - 55 V AC or DC |
| maximum peak voltage | 80 V |
| pull-in / holding current | 0.7 A / 0.15 A |
| connection | 3 m connection cable, 2 x 1 mm ² |
| level of protection | IP40 |
| weight | 2.6 kg |

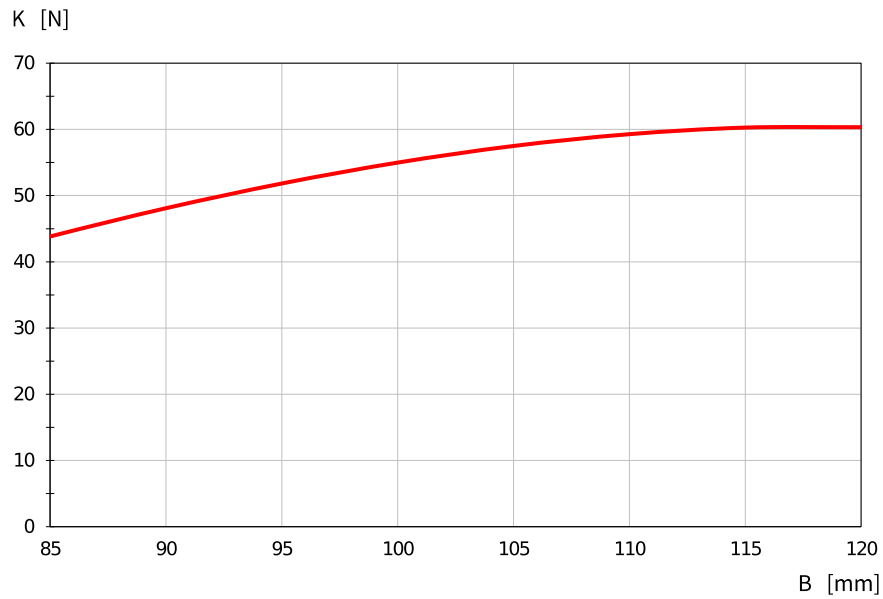
RKMO17 - 24DC

| | |
|---------------------------|---|
| nominal voltage | 24 V DC stabilised/ regulated |
| admissible voltage range | 22 V up to 30 V |
| maximum peak voltage | 36 V |
| pull-in / holding current | 1 A / 0.22 A |
| pull-in time | <1.0s |
| connection | 3 m connection cable, 2 x 1 mm ² |
| wire assignment | brown 24 V (+) blue 0 V (-) |
| level of protection | IP40 (safety extra-low voltage) |
| weight | 2.6 kg |

RKMO17 - 24AC

| | |
|---------------------------|--|
| nominal voltage | 24 V AC |
| admissible voltage range | 22 V - 30 V AC or DC (pulsating or AC rectified) |
| maximum peak voltage | 43 V |
| pull-in / holding current | 1 A / 0.22 A |
| connection | 3 m connection cable, 2 x 1 mm ² |
| level of protection | IP40 (safety extra-low voltage) |
| weight | 2.6 kg |

8.3 Force-deflection graph



K: force | B: total height

9 EU-Declaration of Conformity

The current version of the Declaration of Conformity is available for download on our homepage at kronenberg-gmbh.de.

Notes:

[illegible]



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