





# Assembly instructions

Automated latch release  
Automatic door lock

**KFV**  **The Protection  
Company**  
A company of the SIEGENIA-AUBI GROUP.

-  Window hardware
-  Door hardware
-  Sliding door hardware
-  Ventilation and building technology



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## Target group of this documentation

This documentation is intended to be used by specialists only. All work described in this document is to be performed by experienced professionals with training and practice in the assembly, installation and maintenance of the automated latch release and its individual components. Safe and proper assembly of this automated door lock is not possible without expert knowledge.

## Intended use

- The automated latch release is used in combination with automatic locking systems to unlock doors electrically.
- It is suitable for installation in timber, aluminium, steel and PVC front doors for residential and public buildings.
- All assembly and electrical installation work must be carried out according to our assembly and installation instructions. Wiring the unit incorrectly can irreparably damage its electronic components.
- The automated latch release can be connected to an external access control system (e.g. wireless, transponder or fingerprint scanner system) via a voltage-free contact (switching time: min. 1 second).
- Use the automated latch release only when it is in a technically sound condition. Do not modify the unit's components in any way.
- Use the automated latch release only with genuine KfV accessories.

## Improper use

- The automated latch release must not be installed in moisture-prone areas or areas with a corrosive atmosphere (e.g. electroplating shops).
- The length of the cable between the power supply and the automated latch release must not exceed 13 m.

## Safety notes

- Work on an 230 V AC mains power supply may only be performed by a qualified electrician.
- All work on the 230 V AC mains power supply must be carried out in compliance with the current German VDE regulations (e.g. VDE 0100) and any relevant country-specific requirements.
- All-pole safety isolation should be used when fitting the power lead on-site.
- Some external access control systems available on the market transmit a brief "open" signal when the operating voltage is switched on. This can mean that the automated latch release will open the door following a power cut. If in doubt, please contact the system manufacturer.

## Warning

Where power supply cables are routed parallel to data cables (IDSN, DSL etc), interference can occur, eg: with the data transfer speed.

## Explanation of symbols



∅16

Milling cutter or drill diameter



Groove depth from profile



Groove length

## Installation

### Automated latch release

The automated latch release is supplied unassembled. Before it can be used it must be screwed onto the automatic locking system.

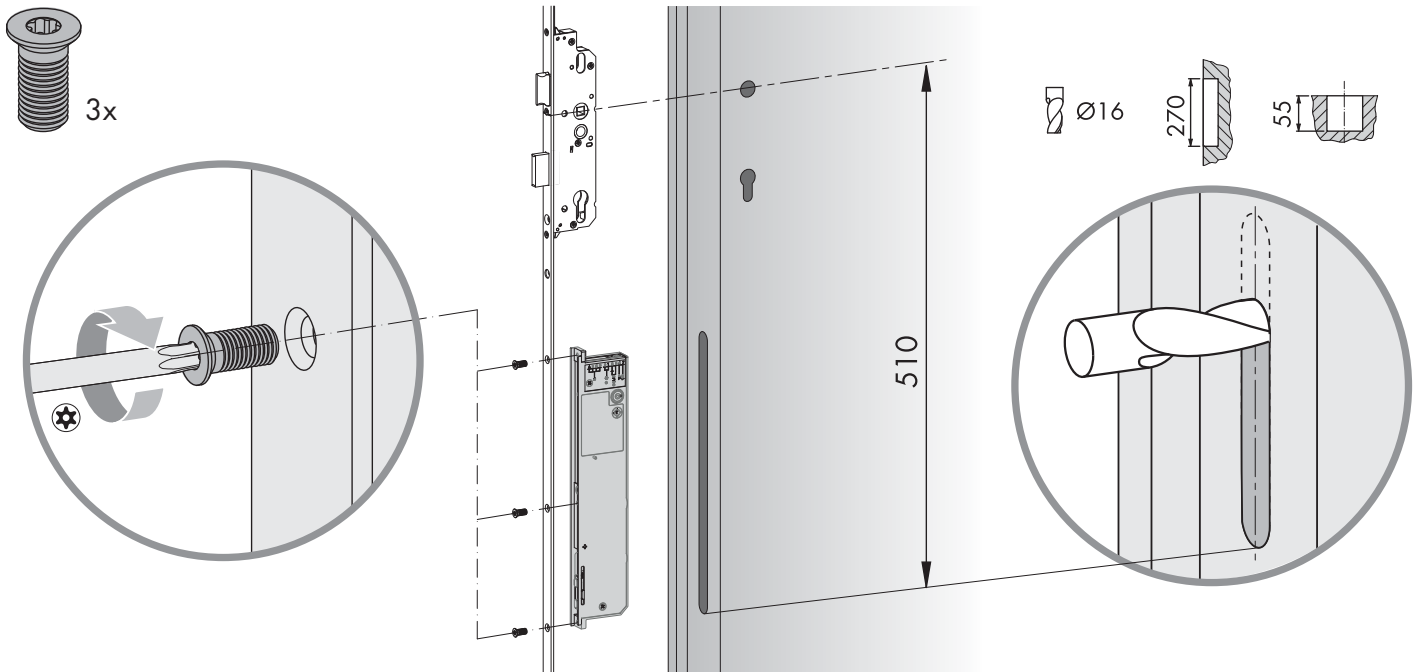


Fig. 1: Fitting the automated latch release

### Fitting the power supply

- The power supply ensures that the automated latch release is supplied with the right voltage.
- Its casing is designed to be fitted on a standard DIN EN 60715 mounting rail.
- One power supply can supply a maximum of 2 automated latch releases, each connected to one KfV access control (wireless, transponder, infra-red or fingerprint scanner) system.
- The power supply comes with a permanent connection. A easily-accessible means of disconnecting it must be integrated into the power supply circuit.



Fig. 2: Power supply

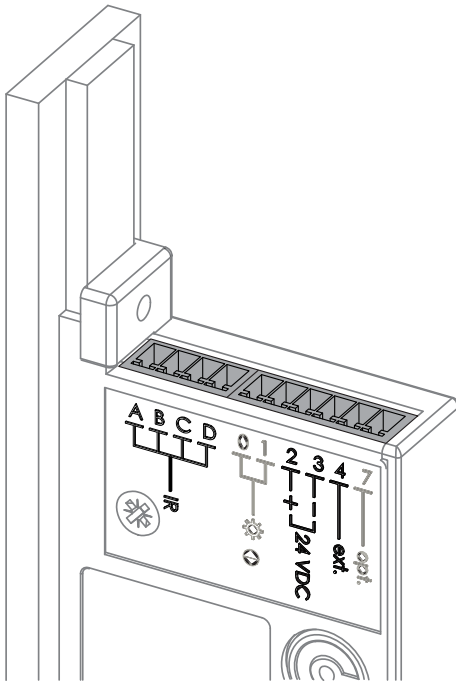
### Fitting cables

Various types of cable are available for connecting the power supply to the automated latch release. Each cable is marked with a band to show where it must be plugged into the automated latch release.

#### Important:

- When routing cables behind the secondary sash, ensure that they are not vulnerable to damage from the drive rod or other moving parts.
- The shield must be connected to earth on the power supply side. On the automated latch release side, connection of the shield is not necessary.

Connections



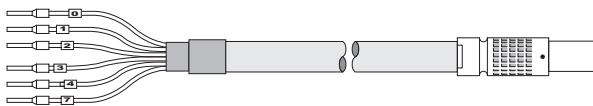
Connections	Type A	Type B	Function
A, B, C, D		✓	Connection for the infra-red eye, which sends infra-red signals to the GENIUS door lock
B, C, D, 2		✓	Connection for the KfV fingerprint scanner
2, 3	✓	✓	24 V DC operating voltage Terminal 2 = + (positive) Terminal 3 = - (negative)
4	✓	✓	External unlocking signal. In both operating modes, if +24 V DC is applied to this terminal for $\geq 1$ s, the door will be opened

Fig. 3: Automated latch release connections

Cable types

Type F

Always used together with type B.

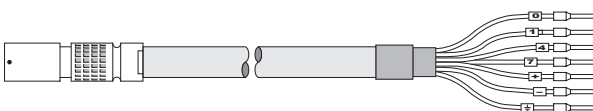


Cable no.	Band colour	Cable colour	Function
0	Black	Grey	-
1	Brown	Yellow	-
2	Red	White	Operating voltage (+) 24 V DC
3	Blue	Brown	Operating voltage (-) negative
4	Yellow	Green	External "unlock" signal
7	Violet	Pink	-

Fig. 4: Cable type F (for connection of automated latch release)

Type B

Always used together with type F.



Cable no.	Band colour	Cable colour	Function
0	Black	Grey	-
1	Brown	Yellow	-
4	Yellow	Green	External "unlock" signal
7	Violet	Pink	-
-	Blue	Brown	Operating voltage (-) negative
+	Red	White	Operating voltage (+) 24 V DC
⊥	White	Blue	Shield

Fig. 5: Cable type B (for connection of power supply)

**Type K**

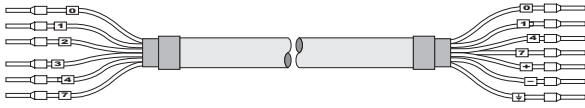


Fig. 6: Cable type K  
(connects automated latch release to power supply)

Cable no.	Band colour	Cable colour	Function
0	Black	Grey	-
1	Brown	Yellow	-
4	Yellow	Green	External "unlock" signal
7	Violet	Pink	-
- /3	Blue	Brown	Operating voltage (-) negative
+ /2	Red	White	Operating voltage (+) 24 V DC
⊥	White	Blue	Shield

**Type E**

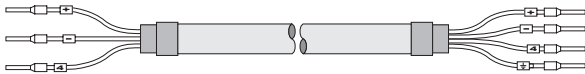


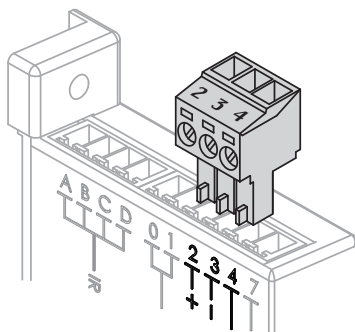
Fig. 7: Cable type E (connects automated latch release to power supply) -type A only-

Cable no.	Band colour	Cable colour	Function
4	Yellow	Green	External "unlock" signal
-	Blue	Brown	Operating voltage (-) negative
+	Red	White	Operating voltage (+) 24 V DC
⊥	White	Blue	Shield

**Cable plugs for the automated latch release**

- To facilitate installation of the automated latch release, the plug can be removed by pulling it upwards.
- There are letters on the plug to indicate where the various cables should be plugged in.

Type A automated latch release



Type F automated latch release

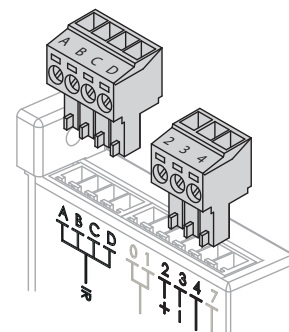


Fig 8: Cable plugs for the automated latch release

## Cable links

### Visible cable link

- The visible cable link should be fitted to the inside of the door on the hinge side.
- If this cable link is used, unHINGING the door leaf requires substantial effort.

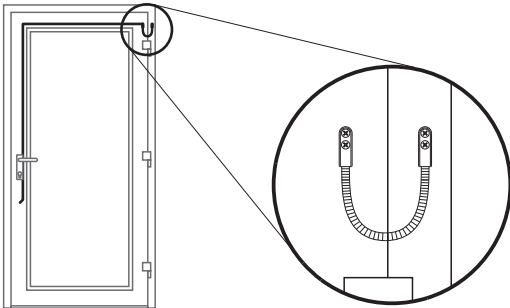


Fig. 9: Visible cable link

### Concealed cable links

#### 100° and 180° concealed cable link

- The casing is fitted in the door frame or leaf.
- Allows the door leaf to be unHINGED where cable types B/F are used.



Fig. 10: Concealed cable link, not disconnectable

This cable link is used for routing cables invisibly in the door rebate.

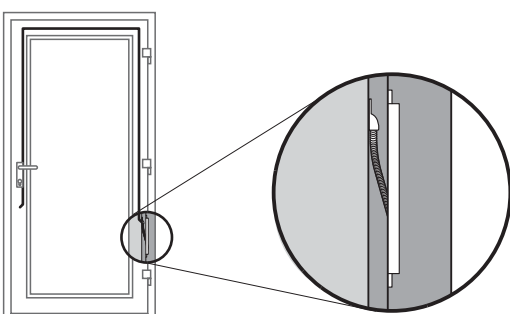


Fig. 11: Concealed cable link

#### 100° and 180° concealed cable link, disconnectable

Cable link is easy to disconnect using the plug connector in the area of the rebate.

- The casing is fitted in the door frame or leaf.
- The disconnectable cable link permits easy unHINGING of the door leaf.



Fig. 12: Concealed cable link, disconnectable



### Fitting an internal release push-button (optional)

The internal release push-button can be used to open the door without a conventional key.

- › Connect the cable (length: 750 mm) to terminals 2 and 4 on the automated latch release.
- › Drill an 18 mm (without anchor) or 20 mm (with anchor) drill hole. Supplied with an anchor for "snap-in" installation.



**Anti-intruder advice:** To effectively prevent intruders from operating the push-button from the outside, it should be ensured that any glass panes and infill panels in the door are suitably burglar-resistant.

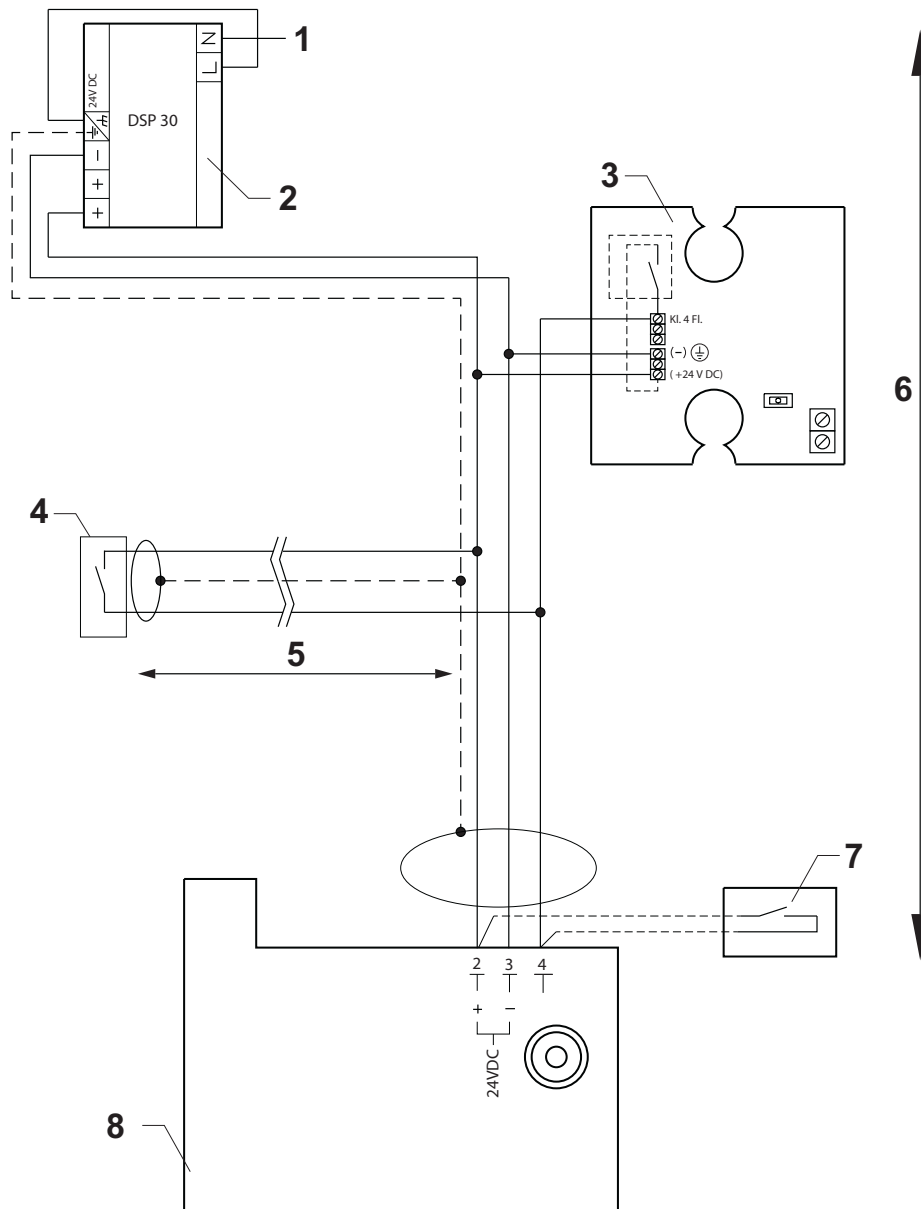
### Fitting the infra-red eye (optional)

The infra-red eye acts as a receiver for the infra-red code transmitted by an infra-red access key or infra-red master key. It comes with an installation anchor suitable for use in any door material.

- › Drill a hole of diameter 20 mm (tolerance  $\pm 0.2$  mm).
- › Push the infra-red eye into the anchor, guiding the cable (length: 750 mm) in first.
- › Guide the cable from the infra-red eye to the automated latch release and connect it to the terminals on the (4-pin) plug on the automated latch release.

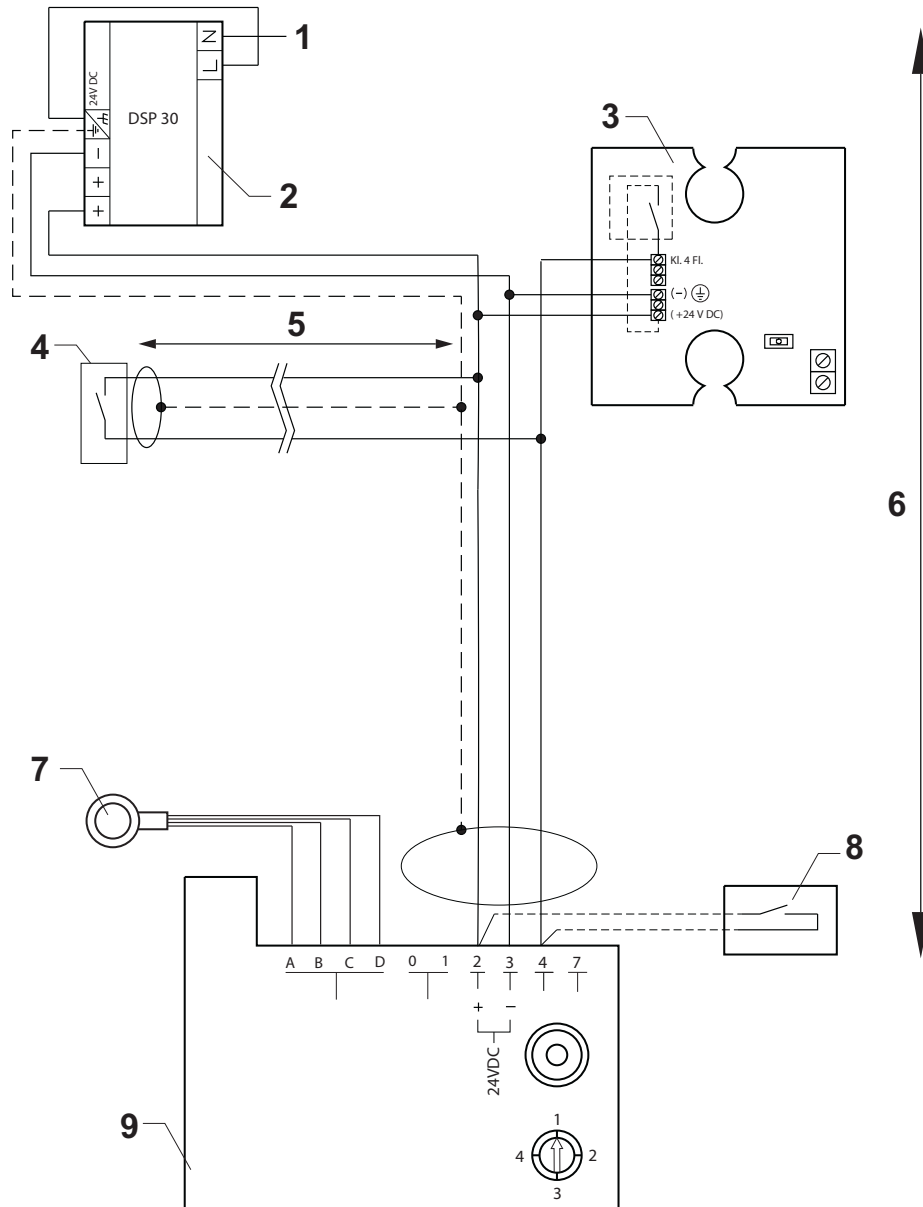


Wiring diagram for type A automated latch release



No.	Description
1	230 V AC supply line (L; N; PE)
2	Power supply
3	Wireless receiver (optional)
4	External unlocking (optional)
5	Line length max. 50 metres (external unlocking)
6	Line length max. 13 metres (from automated latch release to power supply)
7	Internal release push-button (optional)
8	Type A automated latch release

Wiring diagram for type F automated latch release



No.	Description
1	230 V AC supply line (L; N; PE)
2	Power supply
3	Wireless receiver (optional)
4	External unlocking (optional)
5	Line length max. 50 metres (external unlocking)
6	Line length max. 13 metres (from automated latch release to power supply)
7	Infrared eye (optional)
8	Internal release push-button (optional)
9	Type F automated latch release

Technical specifications	
Relative humidity	20 % bis 80 %
Ambient temperature in door	- 10 bis + 45 °C
Dimensions	Width 16 mm, length approx. 252 mm, depth 49 mm + width of face plate
Supply voltage	24 V DC max. 500 mA
Cable types	
Type	LIYCY
Ambient temperature, non-fixed	- 5 bis + 50 °C
Ambient temperature, fixed	- 20 bis + 70 °C

## Liability

### Intended use

Any use of this product that is not in accordance with its intended use, or any adaptation of or modification to the product and its associated components for which our express consent has not been obtained, is strictly prohibited. We accept no liability whatsoever for any material losses or injury to people caused by failure to comply with this stipulation.

### Product liability

Our products are warranted – subject to correct installation and proper use – for a period of one year from the date of receipt by a company (according to our general terms and conditions) or as otherwise agreed, and for a period of two years for end consumers, in accordance with statutory provisions. As part of our ongoing improvements, we reserve the right to replace individual components or entire products. Consequential losses resulting from defects are excluded from the warranty within the limits of the law. The warranty shall become void if modifications that are unauthorized by us or have not been described in this documentation are performed on the product and/or individual components, or if the product and/or individual components is/are dismantled or partly dismantled, and the defect is due to the changes made.

### Exclusion of liability

The product and its components are subject to stringent quality controls. As a result, they function reliably and safely when used correctly. Our liability for consequential losses and/or claims for damages is excluded, except in the case of wilful misconduct or gross negligence, or where we are responsible for injury to life, limb or health. Strict liability under the German Product Liability Act (Produkthaftungsgesetz) remains unaffected. Liability for the culpable violation of significant contractual obligations also remains unaffected; liability in this case is limited to losses that are specific to the contract and that could have been foreseen. The above regulations do not imply a change in the burden of proof to the detriment of the consumer.

### EU Declaration of Conformity

 We, KFV KG, declare under our own responsibility that this product complies with the provisions of Directives 2008/108/EC and 2006/95/EC of the Council of the European Union.

### Environmental protection

Although our products do not fall within the scope of the German Electrical and Electronic Equipment Act (ElektroG), KFV will continue to meet the requirements of this Act and will endeavour to completely eliminate the use of substances that are hazardous to the environment as soon as this becomes technically feasible. Electrical products should not be disposed of as household waste.

### Feedback on documentation

We welcome your comments and suggestions on how to improve our documentation. Please send us your feedback by e-mail to [dokumentation@kfv.de](mailto:dokumentation@kfv.de).

Nemko GmbH & Co. KG  
 Prüf- und Zertifizierungsstelle  
 Test and Certification Institute  
 Reetzstraße 58  
 D-76327 Pfinztal  
 Tel.: +49 (0) 72 40 / 63 -0  
 Fax: +49 (0) 72 40 / 63 -11



Deutsche  
 Akkreditierungsstelle  
 D-PL-18175-01-01



EMV  
 Testzentrum

**PRÜFBERICHT - TEST REPORT**  
 Elektromagnetische Verträglichkeit (EMV) - Electromagnetic Compatibility (EMC)

**ANTRAGSTELLER - APPLICANT**

Firma - Company: **KFV Karl Fliether GmbH & Co. KG**  
 Anschrift - Address: **Siemensstr. 10  
 D - 42551 Velbert**  
 Anwesende - Witness(es): **Herr Kowalzick**

**PRÜFLING (EUT) - EQUIPMENT UNDER TEST**

Gerätebez. - Equipment: **Elektromechanischer Türverschluss - Electromechanical door lock**  
 Modell/Typ - Model/Type: **Genius / A-Öffner (GEN AS\*; GEP EP\*; ZEM F10\*)**  
 Fertigungs Nr. - Serial No.: **# 1018143050907**

**PRÜFUNG - TEST**

Anlieferung  
 Arrival of EUT: **04.06.2013**  
 Meßtermin(e)  
 Date of measurement: **04. - 06.06.2013**  
 Prüfungsgrundlage  
 Standards: **Störaussendung - Emission: EN 61000-6-3:2007+A1:2011  
 Klasse B - class B  
 EN 61000-3-2:2006+A1:2009+A2:2009  
 EN 61000-3-3:2008** **Störfestigkeit - Immunity:  
 EN 61000-6-2:2005**  
 Ergebnisse - Results: **Anforderungen erfüllt - Passed  
 Details siehe Zusammenfassung - Details see test result summary**  
 Bemerkungen - Remarks: **Ein Prüfplan wurde vorgelegt.  
 The test plan was presented.**  
 Durchführung - Performed by: **Dipl.-Ing. Th. W. Stein**

**PRÜFBERICHT - TEST REPORT**

Identifikationsnummer  
 Identification No.: **FS-1306-238552-002**  
 Datum des Prüfberichts  
 Date of Report: **10.06.2013**  
 bearbeitet von - Provided by: **Dipl.-Ing. Th. W. Stein**  
 Prüfer - Person responsible  
 überprüft von - Approved by: **Dipl.-Ing. P. Lukas**  
 Prüfer - Person responsible

Unterschrift - Signature  
  
 Unterschrift - Signature

EMV-5.10-2 d-e / Rev 6.10

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**KFV**  **The Protection  
Company**  
A company of the SIEGENIA-AUBI GROUP.

KFV Karl Fliether GmbH & Co. KG  
Siemensstraße 10  
42551 Velbert  
GERMANY

Telefon: +49 2051 278-0  
Telefax: +49 2051 278-167  
post@siegenia-aubi.com  
www.siegenia-aubi.com



SIEGENIA-AUBI worldwide:

**Austria** Phone: +43 6225 8301  
**Belarus** Phone: +375 17 312 1168  
**Benelux** Phone: +32 9281 1312  
**China** Phone: +86 316 5998198  
**France** Phone: +33 38961 8131  
**Germany** Phone: +49 271 3931-0  
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**Hungary** Phone: +36 76 500810  
**Italy** Phone: +39 02 935 3601  
**Poland** Phone: +48 7744 77700  
**Russia** Phone: +7 495 7211762  
**South Korea** Phone: +82 31 7985590  
**Switzerland** Phone: +41 33 346 10 10  
**Turkey** Phone: +90 216 593 4151  
**Ukraine** Phone: +380 44 4637979

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