

Product Catalogue  
07/2019

Window control

## activPilot Control

A new benchmark in window surveillance systems



# Product segment activPilot Control

The activPilot fitting system offers a large variety of individual solutions. Thanks to the fittings' modular system, additional functions can easily be integrated at any time. This catalogue is intended to provide you with detailed information on our activPilot Control product range. The activPilot Control fitting range is a complement to our extensive activPilot portfolio. You can find the standard activPilot components in our activPilot Concept product catalogue. In case you do not have it available, please contact us. We are always glad to help you.

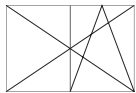
## Declaration of symbols



Turn sash (D)



Turn-tilt sash (DK)



Turn/Turn-tilt double sash (D/DK-Stulp)



Parallel action



Designed as slide-tilt sash (SK)



Item for use on PVC-U windows

Item for use on wooden windows with  
12 mm airgap

Item for use on aluminium windows

The following information and illustrations reflect the current state of our development and manufacturing of these products. In order to achieve customer satisfaction and reliability of the hardware components we reserve the right to change the product. Any information given in this document has been compiled and verified with the greatest care. Some of the indicated dimensions are rounded measures! Due to the constant technical progress, changes in legislation and other inevitable changes, we cannot accept any responsibility for the accuracy and completeness of the contents. We are always thankful for suggestions and comments. Taking into account the information and facts given here with regard to windows (and doors), the fitting system can easily be installed.

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# General product information

Winkhaus. More than 160 years of experience.

The drive towards precision with the focus of protecting humans and their property has made Winkhaus one of the leading enterprises in the window, door and access technology sector. This is also demonstrated by the numerous industry standards set throughout more than 160 years of company history.

## Modular design

activPilot optimises window construction. For the window builder, less components and multifunctionality mean uncomplicated and fast processing and rational mounting. Pre-mounted components and the unique design furthermore ensure that additional functions and safety classes can be achieved easily by retrofitting. activPilot thus sets the scene for sustainably cutting your production, warehousing, logistics and administration costs.

## Effective security

Thanks to the unique modular system, any window can be modified to achieve the required security standard - easily, quickly and cost-efficiently. There is no need for custom parts. Various security levels up to DIN EN 1627 ff. (RC3) are achievable using the same platform. Depending on the number and type of keeps, the fitting system can also be retrofitted to higher security classes at a later date. This also includes solutions according to DIN 18102-2 (retrofit products invisibly inserted into the rebate). All mushroom-head locking bolts are made of high-strength steel offering an effective basic security even in the standard version of the fitting system. At our works, comprehensive and strict tests - along with ongoing functional monitoring - ensure maximum security for customers. Tests and certificates by independent test institutes confirm our outstanding results. You can therefore be sure that activPilot meets the requirements customers place on a stable and secure fitting system.

## Your partner for service

Our services are solution-oriented, reliable and precisely geared to match your requirements - just as you would expect from your partner. We are always at your service. With application engineers on site, professional help from our product data service, and innovative software solutions to help optimise your workflow we safeguard and extend your capacity to act. On top of this, our comprehensive product information system and sophisticated logistics service guarantee fast delivery at all times.

## Quality standard

The Winkhaus group successfully passed a group certification of production sites according to DIN EN ISO 9001:2015 / DIN EN ISO 50001:2011. The group certification ensures that we use the same criteria and procedures in all Winkhaus subsidiaries and thus we can always offer consistent quality for our customers.



## Product liability

Gütegemeinschaft Schlösser und Beschläge e.V., Velbert issues guidelines offering assistance for the use of locking systems and fittings for windows, doors and patio doors. These guidelines are established in cooperation with the trade association of the locks and fittings industry in Velbert as well as the testing institute PIV which is also based in Velbert. If required, they are agreed with the VFF technical committee and ift Rosenheim. As a result the experience and test findings of several decades are considered. The guidelines provide information about the intended use and maintenance of fittings for windows and patio doors. It is mandatory to observe these guidelines. The current guidelines can be accessed in different languages at the following Internet address: <http://www.beschlagindustrie.de/ggsb/richtlinien.asp>

## Winkhaus smartHome

### Smart opening sensors with wireless technology

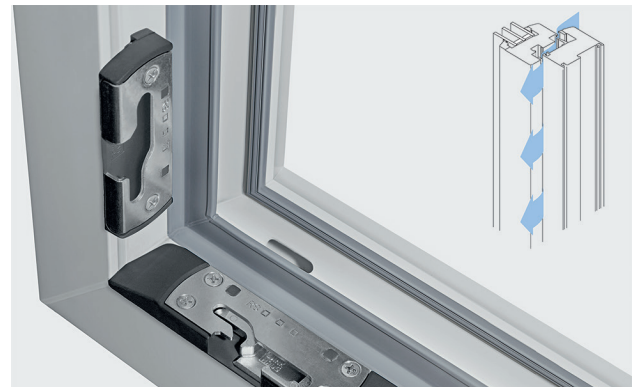
Smart home systems simplify everyday life, providing convenience for your own house. Thanks to the radio contacts from the Winkhaus smartHome product range it is possible to detect the locked and open state of windows. The signal is wirelessly conveyed to a smart home system for evaluation or control. As an option the signal can be conveyed to an intrusion detection system by means of a wireless switching relay. An integration of radio contacts offers the special advantage of foregoing time-consuming cable work and is hence ideally suited for retrofitting intrusion detection systems. Windows can now be entirely integrated into the smart home. It goes without saying that Winkhaus locking sensors have received the VdS Home approval and they are protected according to IP 67.



## activPilot Comfort PADM

The convenient solution for burglary resistance and humidity protection.

Automatic and appropriate ventilation is enabled by means of a motorised window drive. Operation of the window motor can be performed via the keyboard, remote control or a wireless pushbutton. The motor can be controlled directly via CO<sub>2</sub>, VOC or moisture sensors while user-independent ventilation to DIN 1946-6 can be achieved. An additional installation of radio contacts allows the window to be integrated into the smart home building control system, as the window motor can also be controlled by the smart home server.



## Secure retrofitting of windows

### Security as tough as steel – burglary attempt is useless!

The modular retrofit system from Winkhaus enables craftspeople on site to equip the windows with burglary-resistant fittings according to DIN 18104 part 2 in an easy and clean way, no matter whether PVC-u, timber, turn-tilt or double-sash windows are involved. Contrary to many standard market solutions, the retrofit result of Winkhaus fittings is almost invisible. Only internal parts are replaced without fitting any bothersome elements on the window.



## 1

## activPilot Control: for more security and convenience

### activPilot Control: reliable surveillance of window fittings

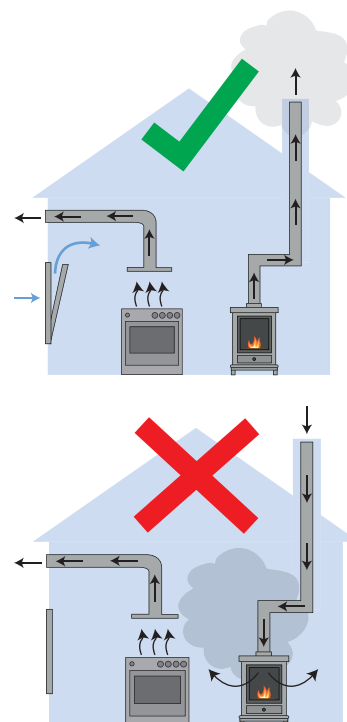
Criminal Investigation statistics confirm that burglars mainly enter into residential buildings through windows or patio doors. It's not only luxury mansions that are affected by such crimes - family homes, terraced houses and flats in apartment buildings are too. Only one in five cases of burglary is solved. Protecting property requires more effective burglary resistance and surveillance systems. A closed and locked window offers protection against uninvited guests, but also from entry of water if it is raining. Using Winkhaus activPilot Control locking sensors, the mechanical security and burglar resistance of window fittings can be perfectly complemented by the electronic feature. Electronic surveillance of the window state is performed by means of fitting-integrated sensors enabling to control the window's locked or open states. These states are indicated on a central display. In this way it isn't necessary to enter each single room for window control. It goes without saying that Winkhaus locking sensors have obtained a VdS approval in the classes B or C and hence they are ready for use in VdS-approved burglar alarm systems.

### activPilot Control for saving heating energy

Living quality is hugely influenced by the living environment and its convenience. Thanks to activPilot Control, the living convenience can be substantially increased. For instance, climate control is provided, causing the heating system to shut down automatically as soon as the window is in the unlocked state. Advantage: switch-off is performed without users having to do anything, except opening the window. So this function provides a simple and efficient solution to save on heating costs.

### activPilot Control: for exhaust air control

Modern living strategies bring an end to the strict separation of living spaces and the kitchen. The cooking area often leads into the living area seamlessly. At the same time the fireplace in the living area is supposed to provide cosy warmth when it is cold. This creates the constructional situation that the kitchen island and the fireplace in the living area are combined as far as ventilation is concerned. The simultaneous use of the extractor hood and the woodburner bears the risk that the perilous carbon monoxide (CO) of the stove firing is drawn into the room. In the worst case carbon monoxide poisoning can then cause suffocation of the inhabitants. The Winkhaus activPilot Control exhaust air control only allows the use of an extractor hood in combination with a heating appliance which depends on the air if the supply of fresh air is ensured by an open window. The opening surveillance integrated into the window fitting system conveys the opening state of the window to the exhaust air control system approved by the German institute for building technology (DIBt). The approval is acknowledged and often even required by a chimney sweep. Similar situations may also arise with laundry dryers or other exhaust air systems which are connected to a wood-burning stove in terms of the room air. Please carefully read the advice given in chapter 7 "Product description exhaust air control / DIBt control".



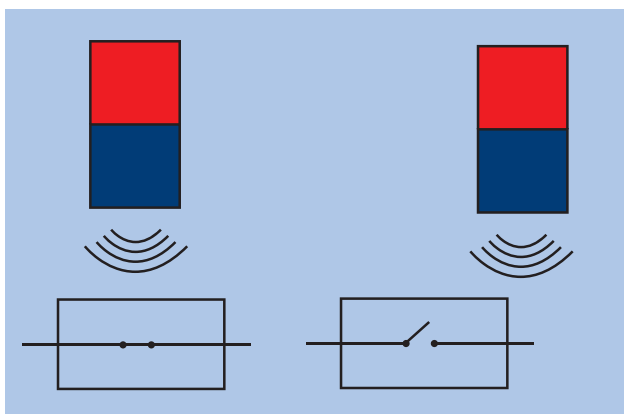


# Basic technical features

## 2.1 Functioning principles of locking sensors

### Magnetic contact

A magnet contact consists of a reed switch and a magnet. The magnet is located on the window sash assuming the function of a contactor and the reed switch is positioned within the locking sensor which is mounted on the window frame. A reed switch consists of ferromagnetic switch tongues which are melted down in a glass tube (hermetically sealed). In the melting process the glass body is filled with nitrogen. In case of high-voltage applications the glass tube is evacuated (vacuum).



The two switch tongues overlap with a tiny distance to each other. If a magnetic field, which is produced by the magnet in the contactor, acts on these “paddles” they move towards each other and the switch closes. When the magnetic field is removed, the paddles return to their original position and the switch opens. The contact area of the switch tongues is metal-coated (usually rhodium or ruthenium). These hard contact surfaces are important for achieving high switch performances. Service life amounts to between 10 million and 1 trillion switch cycles, depending on the load.

### How RFID works

RFID stands for Radio Frequency Identification, i. e. radio identification via contactless data media (transponder technology). A transponder is fitted to the window sash whereas the suitable locking sensor is housed in the frame. After an automatic linkage the two elements form a unique “couple” communicating via radio with an individual coding. When the window sash is closed and locked, the transponder is passed over the locking sensor and the sensor detects its presence. This identification is confirmed to the burglar alarm system by closing the signal contact. If a different transponder comes near the contact, the system detects it is different and immediately sets off the alarm with the signal contact remaining open.

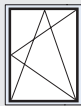
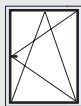
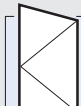

## 2.2 Surveillance types

### Opening surveillance

For exclusive opening surveillance a rigid contactor is mounted on the window frame. This part always stays in the same position on the fitting system, independent of the handle or locking bolt's position. In this way it is controlled whether the sash is located in the frame. However, there is no possibility of distinguishing if the window is properly locked or only closed / ajar.

### Combined opening and locking surveillance

In this surveillance type not only the window sash's position is controlled, but also the locking state of the window. This is enabled by a moving contactor integrated into the fitting system. The contactor moves just like a locking bolt when the handle is operated. In this way the “closed” signal for the window is only emitted when the sash is located in the frame and the window has been locked via the handle.

State of the window for the different surveillance types	Combined opening and locking surveillance	Opening surveillance
 Locked window	closed	closed
 Window ajar	open	closed
 Window in turn position	open	open
 Tilted window	open	open

# Certificates / approvals

## VdS certificates

3

### Trust through security

VdS Schadenverhütung GmbH (association of damage prevention) controls the opening sensors according to the VdS 2120 guideline. This guideline includes requirements placed on opening detectors (e. g. magnetic contacts) of classes A, B and C. The requirements can be divided into:

- Protection from environmental influences
- Functional security
- Operating safety
- Protection from sabotage
- Constitution
- Function
- Interfaces to burglary/attack alarm system

Contacts of class B and C are subject to special requirements concerning sabotage protection and monitoring. They are generally equipped with a sabotage line. The classes are distinguished as follows:

#### - Class A

No or only little sabotage protection, generally no sabotage line

#### - Class B:

Increased protection requirements against sabotage, sabotage lines are available

#### - Class C:

High protection requirements against sabotage (e. g. external magnetic fields, reconstruction of surveillance criteria, covering) sabotage lines available.

### VdS Home

The certification according to VdS Home is supposed to fill the gap between the wide range of unapproved security products and the traditional high-quality systems with VdS approval. Particularly for the private sector this quality mark certifies impeccable quality, providing security when choosing products and services for the field of burglary and theft protection and Smart Home.

### System dependency

VdS-approved opening and locking sensors that can be used in any burglar alarm system due to their technology and interface are called "system independent". VS.B... and VS.BK.06 locking sensors are system independent. Type VS-A/C-RFID.06 isn't system independent due to the required voltage supply and it needs to be specially approved by the VdS.

## DIBt approval

### Deutsches Institut für Bautechnik, DIBt

(German institute for building technology)

The German institute for construction technology (Deutsches Institut für Bautechnik, DIBt) takes over a wide range of technical and supervisory tasks in the building sector. One of them is the approval of non-regulated construction products and construction types.

- It grants national approvals (general building approvals) for construction products and construction types
- Provides European technical ratings of building products according to the EU Construction Products Regulation
- Various other tasks regarding standards, specifications, certification and significance of DIBt approval
- Further information: [www.dibt.de](http://www.dibt.de)

### Meaning of DIBt approval

- When combining ventilation devices such as extractor hoods with room-air dependent fireplaces, users must make sure that sufficient fresh air enters the room in order to avoid that poisonous carbon monoxide from the combustion process can be drawn into the room.
- Due to the utilised window contact switches the ventilator of an extractor hood can only be switched on if a window is opened.
- This security device must be approved by your chimney sweep. In order to avoid problems, we recommend you to contact him before installation.
- It is very important to pay attention to the DIBt approval, because often chimney sweeps only accept switches with DIBt approval.
- The DIBt's approval for window contact switches relieves you and your chimney sweep from performing a detailed function test of your security system, because the DIBt already confirmed its reliability in a general supervisory test and approval.



Please note: Country-specific approvals must be accepted individually. If required, please turn to your Winkhaus contact person.

**Deutsches  
Institut  
für  
Bautechnik**

**DIBt**



# Selection of locking sensor

## Necessary information for planning and connection

For the individual application cases it is necessary to use different locking sensors and contactors. In order to ascertain suitable components and assembly possibilities for each application, please answer the following questions. On the next page you will find a selection scheme enabling you to identify the application by means of a structure tree. The suggested solutions for each application are illustrated in a list on the following pages.

### Questions:

- Which application is intended?
  - Alarm system
  - Climate and heating control
  - Ventilation
  - Smart home
- Which certification is required?
  - VdS class B
  - VdS class C
  - VdS Home
  - DIBt approval
- Which type of surveillance is requested?
  - Combined opening and locking surveillance
  - Opening surveillance
- Which window function is to be equipped?
  - Turn-tilt window
  - Turn double sash window
  - activPilot Comfort PADK – turn, tilt, and parallel opening
  - PADM
- How large is the window?
- How is the cable installed?
  - How long is the cable?
  - Is it necessary to use an empty conduit?
  - Has the cable been looped sufficiently in the window frame?
- Which documents are required for the window system?
  - RC testing
  - VdS testing
  - DIBt testing
  - Approval protocol
- Who is responsible for testing the window?



Attention! The contactor must not replace a locking point.

### Certificates for VdS approval

The certificates for the different locking sensors are available for download on our homepage ([www.winkhaus.de](http://www.winkhaus.de)). A special feature of the VS.B... locking sensors is that they not only have obtained a VdS class B certificate for the combined opening and locking surveillance, but also a VdS class C certificate for locking surveillance. However, this approval is not sufficient to have a burglary alarm system certified according to VdS class C requirements. In this case only the exclusive locking surveillance is assessed, having no effect on the alarm function. It only serves the purpose of activating the burglary alarm system in the locked state of the window.

### Preferred and alternative installation positions of contactors



Corner drive

= preferred

= alternative



Interlocking rod

= preferred

= alternative



rigid contactor, independent of fitting system

= preferred

= alternative



Fixing point at the window

= preferred

= alternative



non-approved mounting position

4.1

Application

Requirements

Surveillance

Solution/components

Mounting position

Alarm surveillance

VdS class C

VdS class B  
or  
without standardWith additional  
surveillance of  
tilt positionScenario:  
Tilting the  
window for  
ventilation  
without emit-  
ting an alarmCombined  
opening and  
locking  
surveillance\*Combined  
opening and  
locking  
surveillance\*Opening  
surveillance  
(independent  
of fitting)Combined  
opening and  
locking  
surveillance\*Combined  
opening and  
locking  
surveillance\*VS A/C  
RFID.06  
+ moving  
contactorVS B...  
+ moving  
contactorVS B...  
+ rigid  
contactorVS BK.06  
+ moving  
contactor2x VS B...  
+ moving and  
rigid contactor

1

2

3

3.1

The mounting positions are described in detail on the following pages.

\*Can only be used for activPilot.

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Application

Requirements

Surveillance

Solution/components

Mounting position

4.1

Climate and  
heating control

Exhaust air control

DIBt  
approval

Combined  
opening and  
locking  
surveillance\*

Opening  
surveillance  
(independent  
of fitting)

Opening  
surveillance  
(independent  
of fitting)

VS.K.06  
+ moving  
contactor

VS.K.06  
+ rigid  
contactor

VS.DIBT.06  
+ rigid  
contactor

4

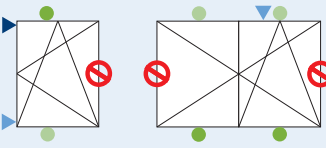
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The mounting positions are described in detail on the following pages.

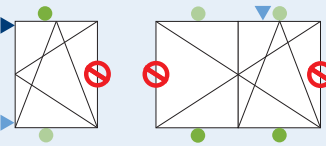
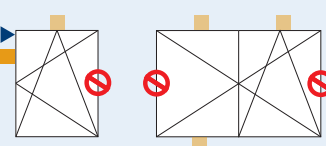
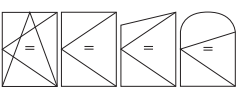
\*Can only be used for activPilot

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1

Contact keeps	Surveillance	Possible contactors	Possible installation case
<b>VS.A/C.RFID.06</b> VdS class C No. G108093 6 m cable 7 wires	Combined opening and locking surveillance	Corner drive <b>E1.VS.RFID</b> Interlocking rod <b>MK.VS-RFID.250-1</b> RFID contactor <b>VS-RFID-G-05,5/4</b> Fitting-independent contactor for push rod fittings	 <p><b>Corner drive:</b>  ▲ Recommended position  ▲ Alternative position  <b>Interlocking rod:</b>  ● Preferred installation position  ● Alternative position</p>
<b>Notes</b>	RFID contact (transponder technology), operating voltage necessary, observe system dependency. Mounting position: circumferential, but not allowed on hinge side. It is recommended to lay the cable in an empty conduit. So in case of repair the contact keep can be replaced incl. the cable.		

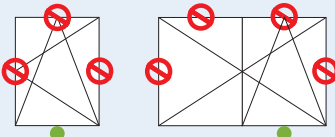
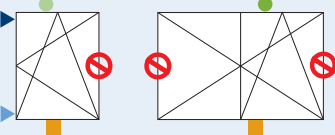






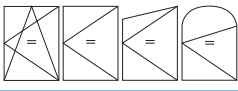
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<b>VS.B.06</b> VdS class B No. G106511 6 m cable 4 wires  or <b>VS.B.25</b> VdS class B No. G106511 25 m cable 4 wires	Combined opening and locking surveillance	Corner drive <b>E1.VS.KG.F</b> Interlocking rod <b>MK.VS.150.KG</b> Interlocking rod <b>MK.VS.250.KG</b> Interlocking rod <b>MK.VS.250-1+1.KG</b> Magnet contactor <b>VS.KG.05-4</b> Fitting-independent contactor for push rod fittings	 <p><b>Corner drive:</b>  ▲ Recommended position  ▲ Alternative position  <b>Interlocking rod:</b>  ● Preferred installation position  ● Alternative position</p>
	Opening surveillance	Rigid contactor <b>VS.KGS.04</b> Mounted on fitting face plate. Rigid contactor <b>VS.KGS.06</b> Mounted in the fitting groove. Rigid contactor <b>VS.KG.04</b> Mounted on the fitting groove.	 <p><b>Corner drive:</b>  ▲ Recommended position  <b>Rigid contactor:</b>  ■ Preferred installation position  ■ Alternative position  If possible, installation position on screwing point of the fitting (drive rod / top rod interlocking rod)</p>
<b>Notes</b>	Magnet contact, potential free, system free Mounting position: circumferential, but not allowed on hinge side. It is recommended to lay the cable in an empty conduit. So in case of repair the contact keep can be replaced incl. the cable.		
	Installation positions also apply to special window forms and parallel action windows.		

Please note: The meaning of symbols is explained in chapter 4!

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4.2

Contact keeps	Surveillance	Possible contactors	Possible installation cases	
<b>VS.BK 06</b> VdS class B No. G110505 6 m cable 7 wires	Combined opening and locking surveillance with additional control of the tilt position	Interlocking rod <b>MK.VS.150.KG</b> Interlocking rod <b>MK.VS.250.KG</b> Interlocking rod <b>MK.VS.250-1+1.KG</b> Magnet contactor <b>VS.KG.06-4</b> Fitting-independent magnet contactor for push rod fittings	 <p><b>Interlocking rod:</b> Only possible at bottom horizontal position</p>	3
Notes	Magnet contact, potential free, system free. Mounting position: horizontally at bottom, but not allowed on hinge side. It is recommended to lay the cable in an empty conduit. So in case of repair of VdS-approved systems the contact keep can be replaced incl. the cable. <b>Important:</b> additional "tilt" state enquiry is not approved by VdS. This contact keep also offers the possibility to move the window into the tilt position for ventilation, without triggering an alarm. To this effect you need an alarm system with tripping delay function, because switching the fitting from the closed to tilted position cannot be performed without interruption of the contacts.			
<b>2x VS.B.06</b> VdS class B No. G106511 6 m cable 4 wires or <b>2x VS.B.25</b> VdS class B No. G106511 25 m cable 4 wires	Combined opening and locking surveillance with additional control of the tilt position Scenario: Tilting the window for ventilation without triggering an alarm	Corner drive <b>E1.VS.KG.F</b> Interlocking rod <b>MK.VS.150.KG</b> Interlocking rod <b>MK.VS.250.KG</b> Interlocking rod <b>MK.VS.250-1+1.KG</b> Magnet contactor <b>VS.KG.06-4</b> Fitting-independent contactor for push rod fittings Rigid contactor <b>VS.KGS.04</b> Mounted on fitting face plate. Rigid contactor <b>VS.KGS.06</b> Mounted in the fitting groove. Rigid contactor <b>VS.KG.04</b> Mounted on the fitting groove.	 <p><b>Rigid contactor (1x):</b>   Recommended position   Alternative position  For opening surveillance/ keeps the contact if the window is moved to the tilt position (only possible for bottom horizontal position)  <b>Moving contactor (1x):</b>  <b>Corner drive:</b>   Recommended position   Alternative position  <b>Interlocking rod</b>   Preferred installation position   Alternative position  Additional locking surveillance: if possible use corner drive </p>	3.1
Notes	Magnet contact, potential free, system free. Magnet position: horizontally at bottom, but not allowed on hinge side. It is recommended to lay the cable in an empty conduit. Alarm system must have an internal and external activation device!			
	Installation positions also apply to special window forms and parallel action windows.			

Please note: The meaning of symbols is explained in chapter 4!

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4.2

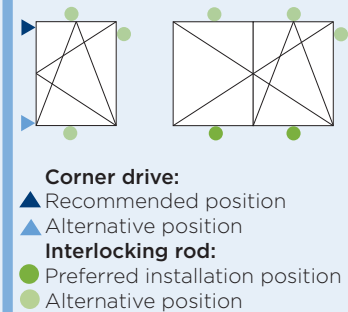
4

**Contact keeps  
per sash****Surveillance****Possible  
contactors****Possible installation cases**

**VS.K.06**  
without  
requirement  
6 m cable  
3 wires

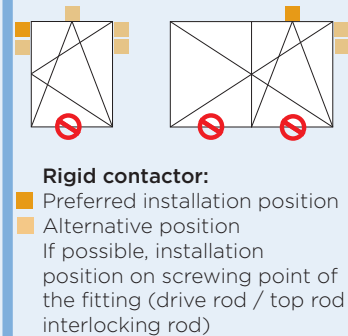
Combined  
opening and  
locking  
surveillance

Corner drive  
**E1.VS.KG.F**  
Interlocking rod  
**MK.VS.150.KG**  
Interlocking rod  
**MK.VS.250.KG**  
Interlocking rod  
**MK.VS.250-1+1.KG**  
Magnet contactor  
**VS.KG.06-4**  
Fitting-independ-  
ent magnet con-  
tactor for push  
rod fittings



Opening  
surveillance

Rigid contactor  
**VS.KGS.04**  
Mounted on fitting  
face plate.  
Rigid contactor  
**VS.KGS.06**  
Mounted in the  
fitting groove.  
Rigid contactor  
**VS.KG.04**  
Mounted on the  
fitting groove.

**Notes**

Magnet contact with changeover switch to climate control  
Changeover switch, system free, potential free  
Mounting position: circumferential, hinge side not recommended

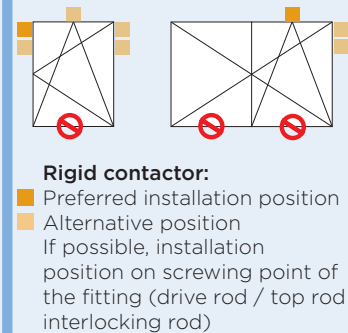
5

**VS.DIBT.06**  
DIBt approved  
6 m cable  
2 wires

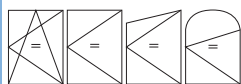
**Important!**  
As described in  
chapter 10.6, the  
minimum ventila-  
tion section for the  
mounting position  
must be observed.

Opening sur-  
veillance

Rigid contactor  
**VS.KGS.04**  
Mounted on fitting  
face plate.  
Rigid contactor  
**VS.KGS.06**  
Mounted in the  
fitting groove.  
Rigid contactor  
**VS.KG.04**  
Mounted on the  
fitting groove.

**Notes**

Contact keep for use of switch relay SR.ST.DIBT or SR.EB.DIBT in exhaust  
air systems, e. g. in extractor hoods. Magnet contact, opener contact (Oe).  
Mounting position: circumferential, but not allowed for bottom horizontal  
position



Installation positions also apply to special window forms and parallel  
action windows.



Application

Requirements

Surveillance

Solution/components

Mounting position

smarthHome radio contacts, can be retrofitted to burglary alarm systems

VdS Home

Combined opening and locking surveillance\*

Opening surveillance (independent of fitting)

Opening surveillance (independent of fitting)

VS.FM.V + moving contactor (concealed radio contact)

VS.FM.V + rigid contactor (concealed radio contact)

VS.FM.A + rigid contactor (visible radio contact)

6

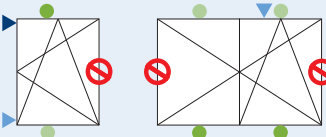
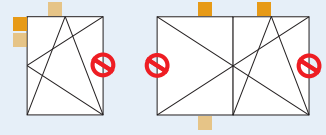
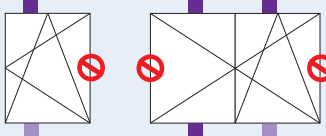
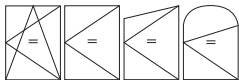
The mounting positions are described in detail on the following pages.

\*Can only be used in combination with the Winkhaus activPilot fitting system.

185\_4.2\_10\_EN

4.2

6

Contact keeps	Surveillance	Possible contactors	Possible installation cases
<b>FM.V</b> VdS Home No. H116001 concealed radio contact	Combined opening and locking surveillance	Corner drive <b>E1.VS.KG.F</b> Interlocking rod <b>MK.VS.150.KG</b> Interlocking rod <b>MK.VS.250.KG</b> Interlocking rod <b>MK.VS.250-1+1.KG</b> Magnet contactor <b>VS.KG.06-4</b> Fitting-independ- ent magnet con- tactor for push rod fittings	 <p><b>Corner drive:</b>            ▲ Preferred installation pos.            ▲ Alternative position  <b>Interlocking rod:</b>            ● Preferred installation pos.            ● Alternative position</p>
	Opening sur- veillance	Rigid contactor <b>VS.KGS.04</b> Mounted on fitting face plate. Rigid contactor <b>VS.KGS.06</b> Mounted in the fitting groove. Rigid contactor <b>VS.KG.04</b> Mounted on the fitting groove.	 <p><b>Rigid contactor:</b>            ■ Preferred installation pos.            ■ Alternative position            If possible, installation on            screw point of fitting (drive            rod/top rod/interlocking rod)</p>
<b>Notes</b>	Radio contact with EnOcean radio protocol, battery operated, magnet contact. Compatible with EnOcean smartHome systems or with radio switch factor SRC-DO Typ2-WH, which can be connected to burglary alarm systems. Mounting position: circumferential, but not allowed on hinge side		
<b>FM.A</b> Visible radio contact	Opening surveillance	Magnet contacts included in scope of supply	 <p>■ In turn and tilt position the window is indicated as "open".            ■ The window is only indicated as "open" in the turn position, not in the tilt position.</p>
<b>Notes</b>	Radio contact with EnOcean radio protocol, solar operated, magnet contact. Compatible with EnOcean smartHome systems or with radio switch factor SRC-DO Typ2-WH, which can be connected to burglary alarm systems. Mounting position: circumferential, but not allowed on hinge side. Choose a light-filled place of installation.		
	Installation positions also apply to special window forms and parallel action windows.		

185\_4.2\_13\_EN

# Product description of alarm keeps

## General

Reed contacts for window surveillance are primarily installed visibly on the window sash and frame. Winkhaus activPilot locking sensors for alarm and surveillance systems are integrated into the window fitting and thus they cannot immediately be perceived.

## Application area

The activPilot Control product range is suitable for electronic monitoring of windows and doors. According to VdS, the locking sensors are intended for use as intrusion detectors without system dependency. Model VS-A/C-RFID is not system free.

### VS-A/C-RFID.06

- combined opening and locking surveillance in burglary alarm systems (EMA) of class C, VdS no. G 108093

### VS.B.06 and VS.B.25

- Combined opening and locking surveillance in burglary alarm systems (EMA) of class B, VdS no. G 106511
- Locking surveillance in intrusion detection systems of class C, VdS no. G 116077

### {VS.BK.06}

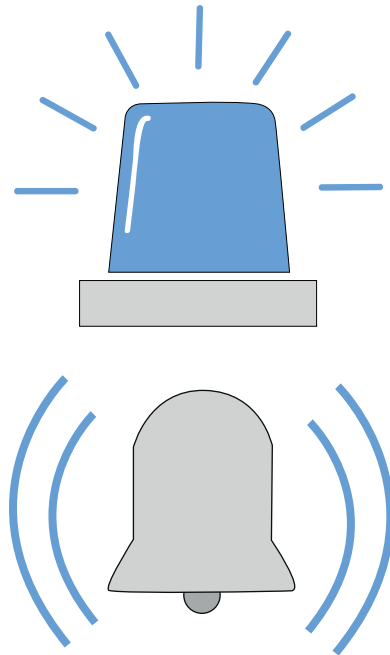
- Combined opening and locking surveillance in burglary alarm systems of class B, VdS no. G 110505
- With additional status enquiry "tilt" (K) when used horizontally at the bottom.

## System advantages

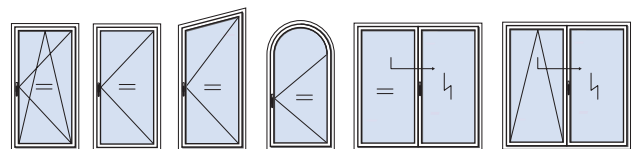
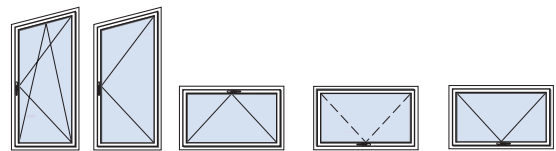
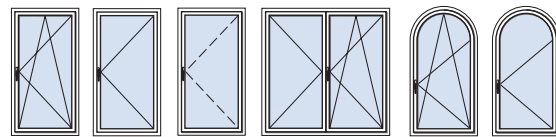
- Can be easily integrated into the standard Winkhaus activPilot turn-tilt fitting.
- Integration into other fitting systems is possible (on request)
- Adjustable via elongated holes
- The locking sensors are suitable for all common window shapes.

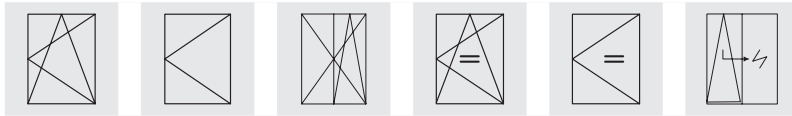
## Overview of system components

For state enquiry of the window a switch contact is required. It consists of a frame-side contact keep and a contactor fitted on the sash.



5





## Locking sensor VS-A/C-RFID.06 (VdS class C)

- RFID locking sensor VS-A/C-RFID.06 for combined opening and locking control
- VdS-approved locking sensor with locking contact and sabotage loop for alarm and monitoring systems VdS no. G 108093, environmental class III
- Integrated LED to indicate triggered alarm signals
- Scope of delivery: 1 locking sensor, 3 adapters and 2 fixing screws
- Utilisation in combination with one of the RFID contactors E1.VS-RFID, MK.VS-RFID.250-1 or VS-RFID-G-05.5/4

### Technical data

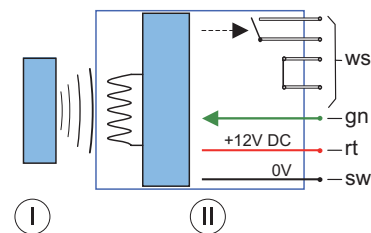
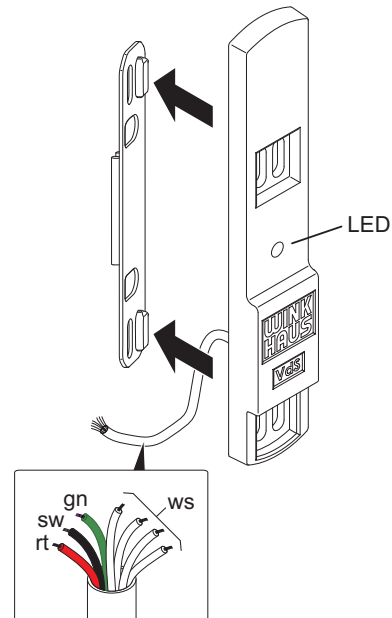
- Nominal supply voltage: 12 V ± 3 V
- Current consumption with 12 V: ≤10 mA
- Activate the input signal (12 V DC)
- Alarm contact (potential free)
- Switch voltage: max. 48 V DC
- Switching current: max. 50 mA
- Contact resistance: 25 Ω
- Temperature range: -25 °C to +55 °C
- Protection class: IP67 according to DIN EN 60529
- External dimensions: length 104 mm, width 18 mm, height 8.5 mm

### Connection type for VS-A/C-RFID.06

- 6 m connecting cable integrally cast, white, 7 x 0.14mm<sup>2</sup>, diameter 4.3 mm

### Note

If the alarm system does not feature a separate activation function, the green wire (activation) must be connected to +12 V DC.



I : Contactor (transponder)

II: Locking sensor (receiver unit)

Wiring assignment

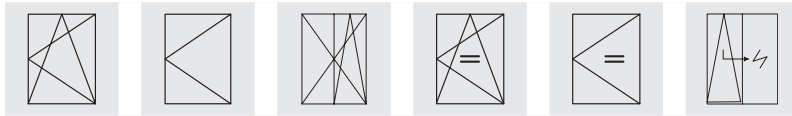
ws = white - signal contact + sabotage loop

gn = green - activation (+12V DC)

rt = red - supply voltage (+12V DC)

sw = black - earth (0V)

Item description	Item No.		Cable length	VdS approval	VPA1 Qty./Type	VPA2 Qty./Type	VPA3 Qty./Type
VS-A/C-RFID.06	4983720	2	6 m	Klasse C	1 BL	20 KK	480 EK



## Locking sensors VS.B.06 and VS.B.25 (VdS class B)

- VS.B.06 and VS.B.25 locking sensors for combined opening and locking surveillance
- VdS-approved locking sensor with locking contact (B) and sabotage line for alarm and monitoring systems VdS no. G 106511, environmental class III
- Approval to EN 50131-2-6, level 2, environment class III A, approval no. EN-ST-000251
- Scope of delivery: 1 locking sensor, 3 adapters and 2 fixing screws
- Utilisation in combination with one of the magnetic contactors E1.VS.KG, MK.VS.150.KG or MK.VS.250.KG

### Technical data

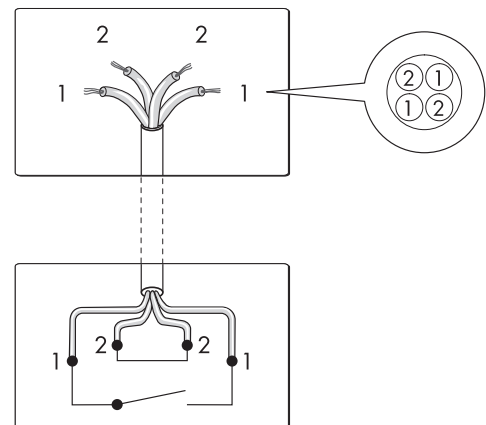
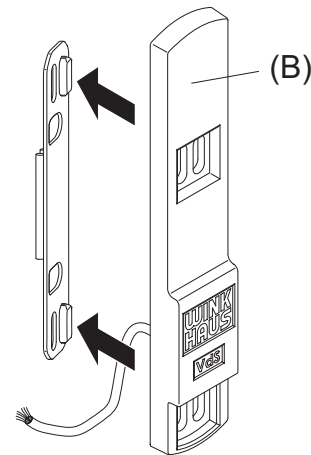
- Switch voltage: max. 48 V DC
- Switching current: max. 0.5 A
- Transport current: max. 1.0 A
- Contact resistance: max. 150 m  $\Omega$
- Switch performance: max. 10 W pure ohmic load
- Temperature range: -20° C to +70° C
- Protection class: IP67 according to DIN EN 60529
- Service life: min 10<sup>7</sup> switch cycles
- External dimensions: length 104 mm, width 18 mm, height 8.5 mm

### Connection type for VS.B.06

- 6 m connecting cable integrally cast, white, 4 x 0.14mm<sup>2</sup>, diameter 3.5 mm

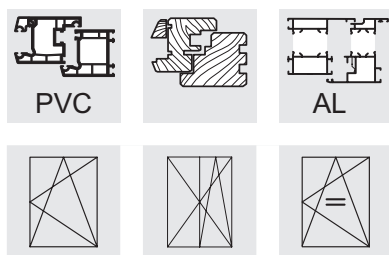
### Connection type for VS.B.25

- max. 25 m connecting cable integrally cast, white, 4 x 0.22 mm<sup>2</sup>, diameter 3.5 mm



For safety reasons all wires are white.

Item description	Item No.	Cable length	VdS approval	VPA1 Qty./Type	VPA2 Qty./Type	VPA3 Qty./Type
{VS.B.06}	4983721	6 m	Klasse B	1 BL	30 KK	720 EK
{VS.B.25}	4983722	25 m	Klasse B	1 BL	10 KK	240 EK



## Locking sensor VS.BK.06 VdS class B

- Locking sensor VS.BK.06 for combined opening and locking surveillance
- VdS-approved locking sensor with closing contact (B) and sabotage loop for alarm and surveillance systems, VdS no. G 110505, environmental class III
- Approval to EN 50131-2-6, level 2, environment class III A, approval no. EN-ST-000254
- With additional status enquiry "tilt" (K) when used horizontally at the bottom.
- Scope of delivery: 1 locking sensor, 3 adapters and 2 fixing screws
- Used in combination with one of the magnetic contactors E1.VS.KG, MK.VS.150.KG or MK.VS.250.KG
- Note: Switching the fitting from the closed position to the tilt position is impossible without interrupting the signal. The tilt surveillance is not VdS approved.
- The tilt surveillance is without VdS approval.

### Note

In the locked position only the B contact is closed, but not the K contact (attention in case of internal and external activation).

### Technical data

- Switch voltage: max. 48 V DC
- Contact resistance: max. 150 m Ω
- Temperature range: -20° C to +70° C
- Protection class: IP67 according to DIN EN 60529
- Service life: min 10<sup>7</sup> switch cycles
- External dimensions: length 104 mm, width 18 mm, height 8.5 mm

### Technical data surveillance (B)

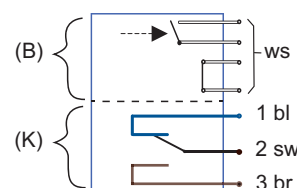
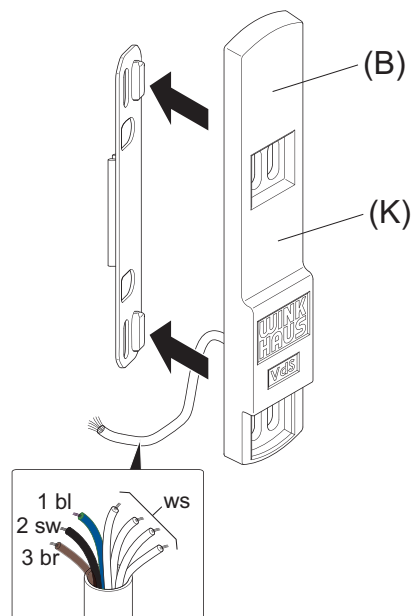
- Switch current max. 0.5 A
- Transport current: max. 1.0 A
- Switch performance: max. 10 W pure ohmic load

### Technical data status enquiry "tilt" (K)

- Switch current: max. 0.2 A
- Transport current: max. 0,5 A
- Switch performance: max. 3 W pure ohmic load

### Connection type for VS.BK.06

- 6 m connecting cable integrally cast, white, 7 x 0.14mm<sup>2</sup>, diameter 4.3 mm



### Wiring assignment

WS = white

bl = blue

sw = black

br = brown

For safety reasons all wires of the four surveillance cables are white.

The wire ends are marked in order to distinguish them.

(B) = Receiver unit for closed window (VdS class B)

(K) = Receiver unit for tilted window

Item description	Item No.	Cable length	VdS approval	VPA1 Qty./	VPA2 Qty./	VPA3 Qty./
{VS.BK.06}	4983723 - VS.BK.06	6 m	Klasse B	1	20	480



# Product description of climate and heating control

## General

Climate and heating control serves important purposes, e. g. to avoid loss of energy when the window is open while the heating is on. In combination with suitable radiator thermostat valves or control units this fitting-integrated switch contact allows the radiator activity to be reduced when a window or patio door is opened. The suitable radiator thermostat valves, radiator control units and radiator power supply units can be obtained from specialist dealers of sanitary equipment.

## Application area

- Heating and climate control according to the motto "Open window – switch off heating"
- For simple status enquiry
- Query option of position "open" or "closed"



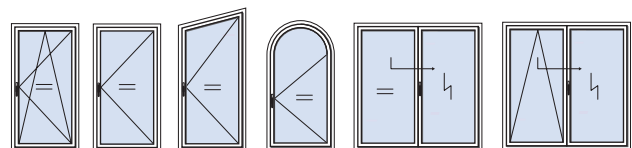
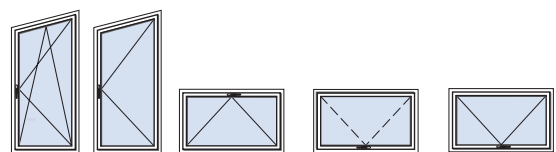
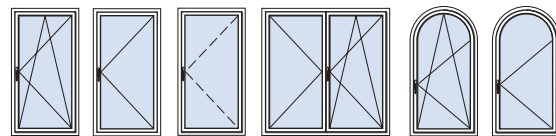
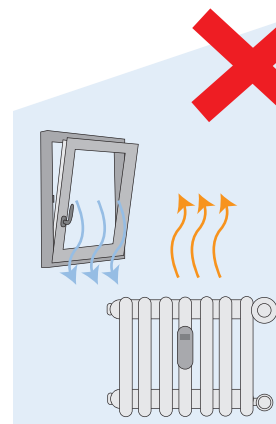
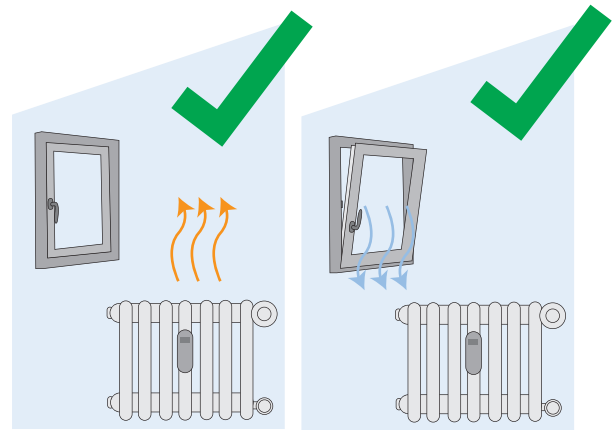
Note: For controlling ventilation systems using the VS.K climate keep we recommend you to apply a rigid contactor. So you can be sure that the system can only be activated when the window is in the tilt position.

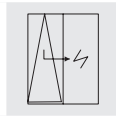
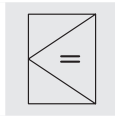
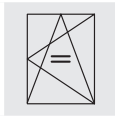
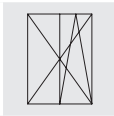
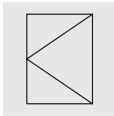
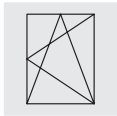
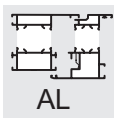
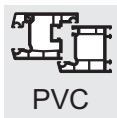


Please note: For the exclusive heating control with a VS.K climate keep a moving contactor is recommended, because even if the window is ajar, there is a loss of energy.

## System advantages

- Can be easily integrated into the standard Winkhaus activPilot turn-tilt fitting.
- Integration into other fitting systems is possible (on request)
- Adjustable via elongated holes
- The locking sensors are suitable for conventional window designs.





## Locking sensor VS.K.06

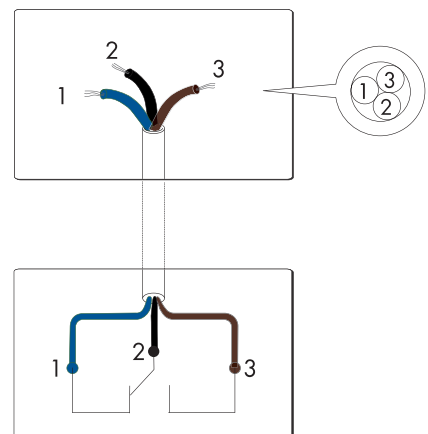
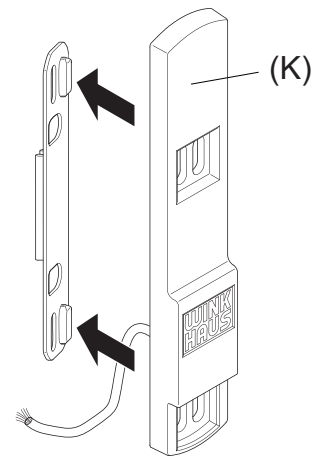
- Locking sensor VS.K06 for climate control, e. g. energy-efficient window ventilation or control of ventilating systems
- Locking sensor with changeover contact (K) for energy-efficient window ventilation
- For the status enquiry of the window a switch contact is needed as follows: frame-side locking sensor with integrated reed contact and sash-side fitting-independent magnetic contactor
- Scope of delivery: 1 locking sensor, 3 adapters and 2 fixing screws
- Used in combination with one of the magnetic contactors E1.VS.KG, MK.VS.150.KG, MK.VS.250.KG, VS.KG... or VS.KGS...

### Technical data

- Switch voltage: max. 48 V DC
- Switching current: max. 0.25 A
- Transport current: max. 1.2 A
- Contact resistance: max. 150 m  $\Omega$
- Switch performance: max. 3 W pure ohmic load
- Temperature range: -20° C to +70° C
- Protection class: IP67 according to DIN EN 60529
- Service life: min 10<sup>7</sup> switch cycles
- External dimensions: length 104 mm, width 18 mm, height 8.5 mm

### Connection type for VS.K.06

- 6 m connecting cable integrally cast, black, 3 x 0.14mm<sup>2</sup>, diameter 3,5 mm



Wire colours:  
1 = blue  
2 = black  
3 = brown

Item description	Item No.	Cable length	VdS approval	VPA1 Qty./Type	VPA2 Qty./Type	VPA3 Qty./Type
Locking sensor VS.K.06	4983724	6 m	-	1 BL	30 KK	720 EK

## Product description exhaust air control (DIBt control)

### General

The switch unit consisting of locking sensor and switch relay prevents the creation of an underpressure if a room-independent fireplace (e. g. chimney, coal oven, wood-burning stove, gas heater, coal heating) is used together with exhaust ventilators (e. g. extractor hoods, exhaust air dryer, ventilation fans) and also avoids that poisonous gases from the fire place are drawn back into the room. Thanks to the magnet system the exhaust air ventilators are only operable when the window is open. In this way the user is clearly protected against carbon monoxide (CO) poisoning which is also legally mandatory and specified in the fire precautions regulations (FeuVO NRW § 4).



Please note: Monitoring of the supply of fresh air by the user cannot be fully replaced by this device, only supported.

Locking sensor VS.DIBT.06 with a suitable rigid contactor VS.KG...

- Switch relay SR.ST.DIBT (connector version) or SR.EB.DIBT (installed version)



Remark: installation version SR.EB.DIBT The advantage of this installed version is that the ventilator motor of an extractor hood is switched off while the light stays on completely.



Note for installed version SR.EB.DIBT: The advantage of this installed version is that the ventilator motor of an extractor hood is switched off while the light can fully be used.



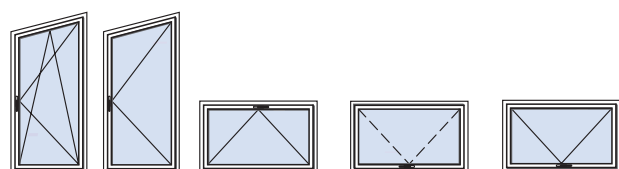
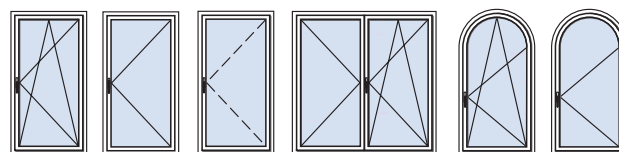
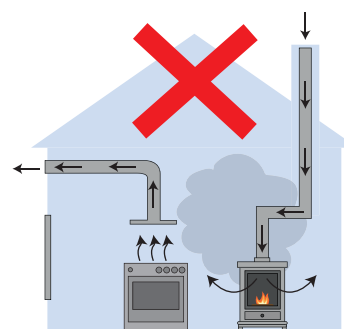
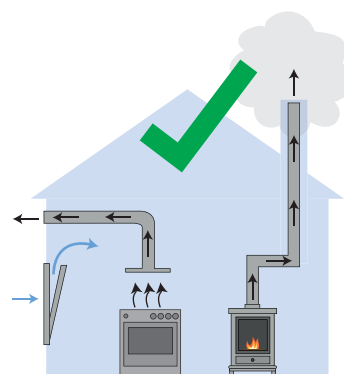
Please note: To this effect it may be necessary to open the extractor hood. The connection must be completed by a specialised company (electrician).

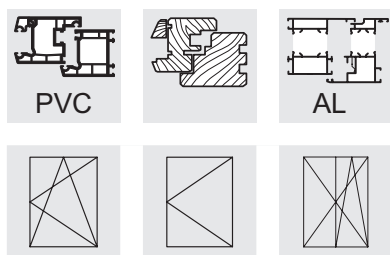
### System advantages

- Can be easily integrated into the standard Winkhaus activPilot turn-tilt fitting.
- Integration into other fitting systems is possible (on request)
- Adjustable via elongated holes
- The locking sensors are suitable for conventional window designs.



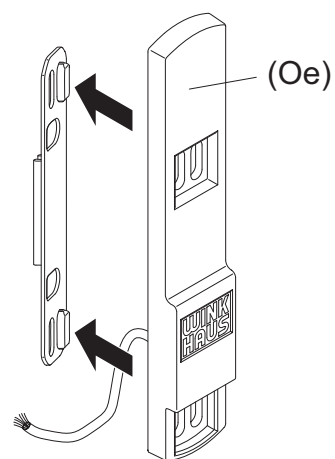
Please note: Not suitable for parallel action windows





## VS.DIBT.06

- Contact keep VS.DIBT.06 for operation of switch relays SR.ST.DIBT and SR.EB.DIBT
- Contact keep with opener contact (Oe)
- For the status enquiry of the window a switch contact is needed as follows: frame-side locking sensor with integrated reed contact and sash-side fitting-independent (rigid) magnetic contactor.
- Scope of delivery: 1 locking sensor, 3 adapters and 2 fixing screws
- Used in combination with one of the magnet contactors VS.KG... or VS.KGS...

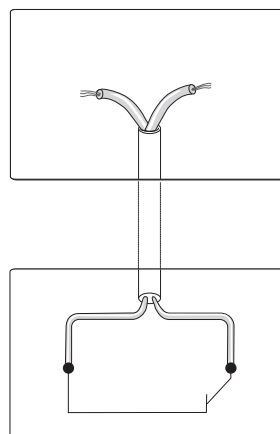


### Technical data

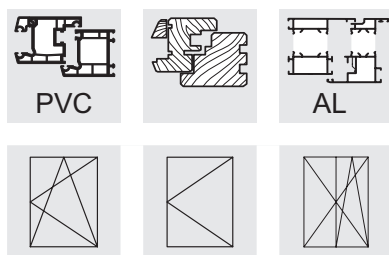
- Switch voltage: max. 48 V DC
- Switch current: max. 0.2 A
- Transport current: max. 0,5 A
- Contact resistance: max. 1550 m  $\Omega$
- Switch performance: max. 3 W pure ohmic load
- Temperature range: -20° C to +70° C
- Protection class: IP67 according to DIN EN 60529
- Service life: min 10<sup>7</sup> switch cycles
- External dimensions: length 104 mm, width 18 mm, height 8.5 mm

### Connection type for VS.DIBT.06

- 6 m connecting cable integrally cast, white, 2 x 0.14mm<sup>2</sup>, diameter approx. 3.1 mm



Item description	Item No.		Cable length	VdS approval	VPA1 Qty./Type	VPA2 Qty./Type	VPA3 Qty./Type
{VS.DIBT.06}	4996802	2	6 m	-	1 BL	30 KK	720 EK



## Switch relay SR...DIBT

- Used in combination with locking sensor VS.DIBT.06
- Approved by DIBt
- The extractor hood can only be put to operation when the window is open.
- According to the fire precautions regulations (M-FeuVO, § 4 Installation of fireplaces) determining that it is mandatory to avoid dangerous vacuums which may cause poisonous gases from the fireplace to be sucked back into the room in case of simultaneous operation of room-air dependent fireplaces (e. g. open fireplace or stove) and an exhaust air system (e. g. extractor hood).

### Technical data SR.ST.DIBT

- Connector version with replugging protection for operating the exhaust air system according to instructions
- Power supply: 230 V AC / 50 Hz
- Power input: approx. 3 W
- Switching capacity: 230 V AC, 6 A, 1400 W, 1 pin
- Dimensions: L = 135 mm, B = 65 mm, T = 75 mm
- Weight: approx. 350 g
- Protection class : I
- Protection type: IP 20
- Material: ABS

### Technical data SR.EB.DIBT

- Installed version
- The light of the extractor hood can also be used if the window is closed (attention: depends on type of extractor hood).
- Power supply: 230 V AC / 50 Hz
- Power input: approx. 3 W
- Switching capacity: 230 V AC, 6 A, 1400 W, 1 pin
- Dimensions: length = 99 mm, width = 89 mm, height = 33 mm
- Weight: approx. 145 g
- Protection class : I
- Protection type: IP 20
- Material: ABS

### Declaration of conformity

- Aug. Winkhaus GmbH & Co. KG declares with full responsibility that the device types SR.ST.DIBT/SR.EB.DIBT meet the specifications of the Directives 2008/108/EC and 2006/95/EC of the Council of the European Union.

Item description	Item No.	VPA1 Qty./Type	VPA2 Qty./Type	VPA3 Qty./Type
{SR.ST.DIBT}	4996803	1 KT	12 KK	288 EK
{SR.EB.DIBT}	4996804	1 KT	19 KK	456 EK



SR.ST.DIBT



SR.EB.DIBT

CE  DIBt Ü Z-85.2-6

## Product description Winkhaus smartHome

### General

The wireless contacts from our smartHome product range cannot only be connected to Smart Home systems, but also to a burglary alarm system in case a wireless relay is used. The concealed wireless contact FM.V and the surface-mounted wireless contact FM.A are specially suited for retrofitted burglary alarm systems, as no cables need to be laid to the window. So you can also do without cumbersome plastering and wallpapering works.

### FM.V

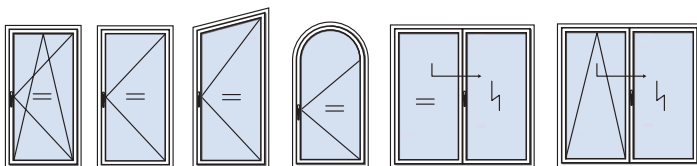
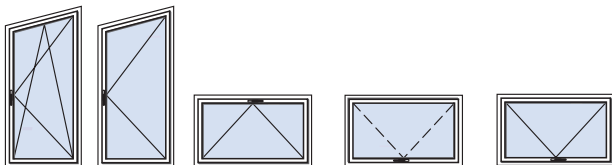
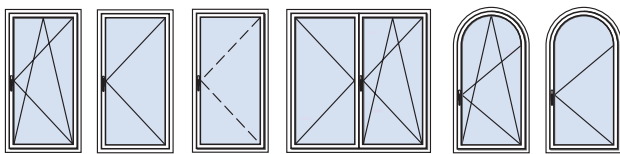
- Combined opening and locking surveillance in intrusion detection systems according to VdS Home, VdS no. H 116001
- It is possible to mount a rigid or moving contactor on the sash.
- Battery operated
- Concealed wireless contact
- Signal transmission on the basis of EnOcean radio protocol

### FM.A

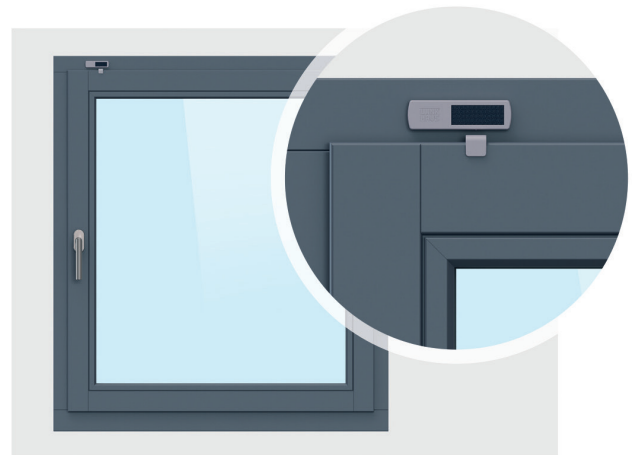
- Opening surveillance in intrusion detection systems
- Solar powered (make sure enough light is available!)
- Surface-mounted wireless contact
- Signal transmission on the basis of EnOcean radio protocol

### SRC-DO Typ2-WH

- Receivers for up to 20 wireless contacts
- For adding radio contacts in intrusion detection systems



Concealed wireless contact

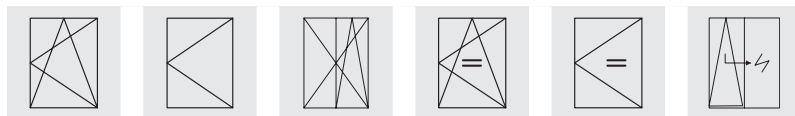
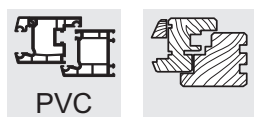


Surface-mounted wireless contact



Wireless relay





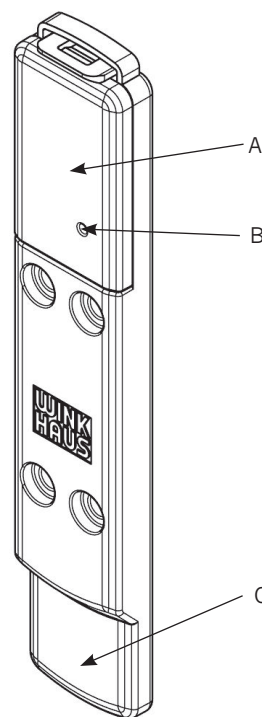
## Wireless contact FM.V (VdS Home)

- Concealed radio contact FM.V for combined opening and locking surveillance
- VdS Home approval, VdS no. H116001
- Scope of delivery:
  - 1 Wireless contact FM.V
  - 1 Contactor VS.KG.04
  - 2 ISO 7049-ST3, 5x25-C sheet metal screws
  - 1 Adapter for profile adjustment
  - 1 battery CR 2032
  - 1 Operating instructions
- Used in combination with one of the magnet contactors


### Technical data

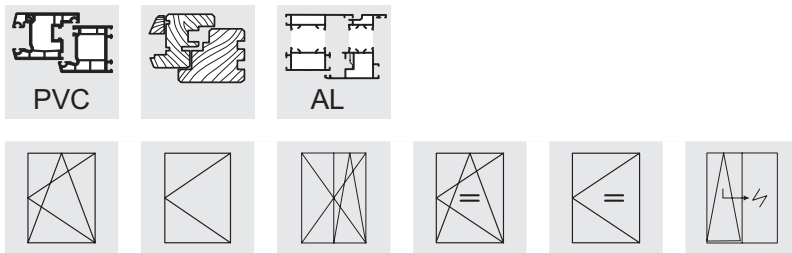
- Dimensions: 127.5 x 9 x 24 mm
- Voltage supply: battery CR2032
- Life of battery: normally 5 years at 25 °C
- Operating temperature: -20 °C to +60 °C
- Type of protection: IP67
- Airgap tolerance: 10 mm - 15 mm
- Radio: EnOcean, unidirectional
- EnOcean, switchable by pressing the teach-in button.
  - Teach-in button < 3 sec: EnOcean, Equipment Profile (EEP), D5-14-01 (4BS)
  - Teach-in button ≥ 3 sec: EnOcean, Equipment Profile (EEP) D5-00-01 (1BS)
- Frequency: 868.3 MHz
- Typical ranges: ferroconcrete 10 m through max. 1 wall, masonry 20 m through max. 3 walls, drywall timber 30 m through max. 5 walls

Details regarding the installation and start-up of the FM.V wireless contact can be found in the operating instructions on our homepage: [www.winkhaus.de](http://www.winkhaus.de)



A = battery compartment, B = teach-in button, C = magnet contact face

Item description	Item No.		VPA1 Qty./Type	VPA2 Qty./Type	VPA3 Qty./Type
{FM.V.SGR +KG ENOCEAN}	5022215	2	1 KT	25 K3	600 E1



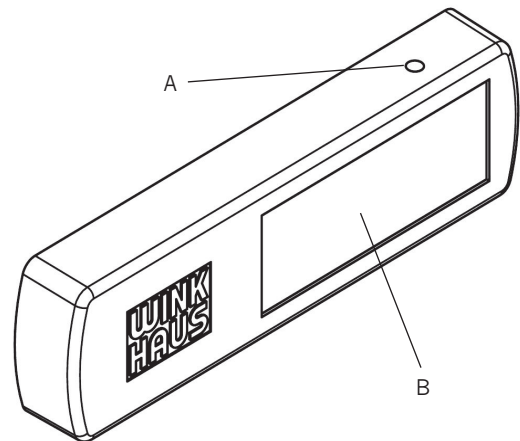
## Wireless contact FM.A

- Surface-mounted wireless contact FM.A for opening surveillance
- Scope of supply: - 1 wireless contact FM.A - 2 contactors  
FM.A - 2 adhesive pads for wireless contact  
FM.A - 2 adhesive pads for wireless contact  
FM.A - 1 operating instructions

### Technical data

- Dimensions: 70 x 9 x 20 mm
- Voltage supply: solar powered
- Operating temperature: -20 °C to +60 °C
- Protection type: IP30
- Max. distance of magnet: 5 mm from wireless contact
- Fixing type: stick to level surface
- Radio: EnOcean, unidirectional
- Wireless protocol: EnOcean, equipment profile (EP)  
D5-00-01 (IBS), D5-14-01 (4BS)
- Frequency: 868.3 MHz
- Typical ranges: ferroconcrete 10 m through max. 1 wall,  
masonry 20 m through max. 3 walls,  
drywall timber 30 m through max. 5 walls

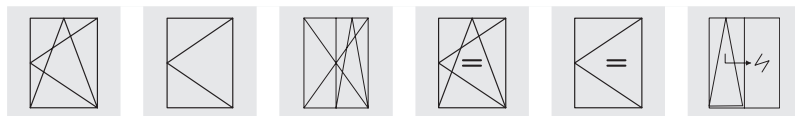
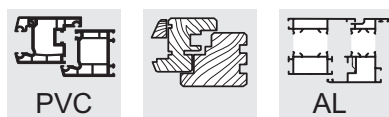
Details regarding the installation and start-up of the FM.V wireless contact can be found in the operating instructions on our homepage: [www.winkhaus.de](http://www.winkhaus.de)



A = teach-in button, B = solar module

Item description	Item No.	VPA1 Qty./Type	VPA2 Qty./Type	VPA3 Qty./Type
{FM.A AGR}	5039374	1 KT	25 K3	600 E1
{FM.A WS}	5039375	1 KT	25 K3	600 E1

AGR = anthracite grey, WS = white



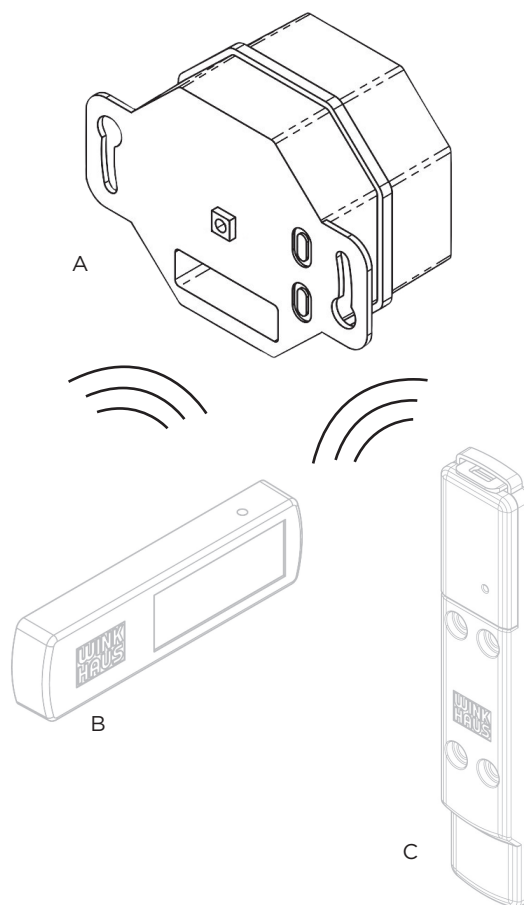
## Wireless relay EnOcean SRC-DO Typ 2-WH

- Wireless switch actor SRC-DO Typ 2-WH for connecting radio contacts to control units and intrusion detection systems
- Compatible with 20 wireless contacts

### Technical data

- Output switch contact: changeover contact, potential-free for 24 V ~ / 3 A or 24 V = / 3 A
- Radio technology: EnOcean (IEC 14543-3-10)
- Operating temperature: -20 °C to + 60 °C
- Protection type: IP30
- Max. distance of magnet: 5 mm from wireless contact
- Fixing type: flush-mounted housing
- Radio: EnOcean, unidirectional
- Wireless protocol: EnOcean, equipment profile (EP) D5-00-01 (IBS), D5-14-01 (4BS)
- Frequency: 868.3 MHz
- Typical ranges: ferroconcrete 10 m through max. 1 wall, masonry 20 m through max. 3 walls, drywall timber 30 m through max. 5 walls

Details regarding the installation and start-up of the FM.V wireless contact can be found in the operating instructions on our homepage: [www.winkhaus.de](http://www.winkhaus.de)



A = wireless relay EnOcean, B = radio contact FM.A, C = radio contact FM.V

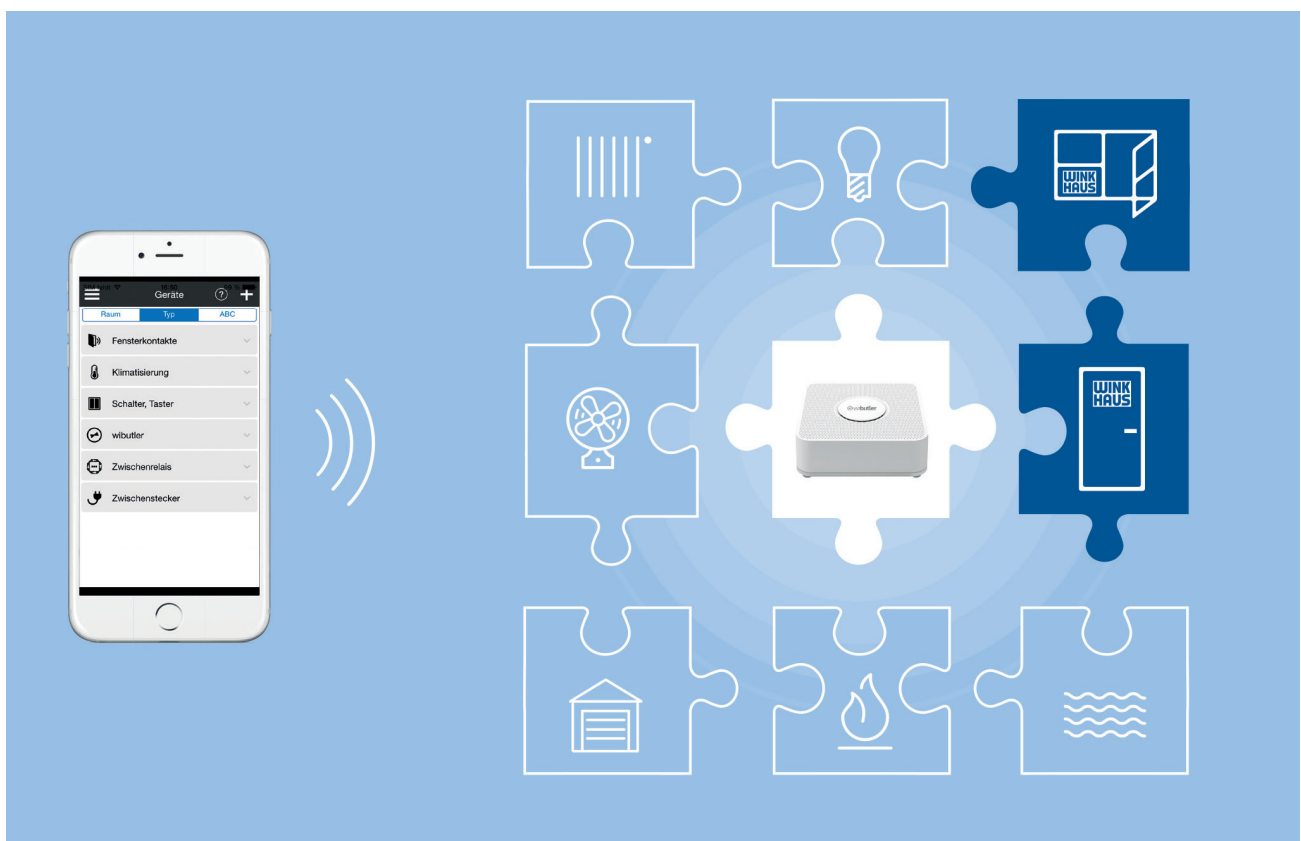
Item description	Item No.	VPA1 Qty./Type	VPA2 Qty./Type	VPA3 Qty./Type
{SRC-DO TYP2-WH}	5069654	1 KT	60 K3	480 EK

## Winkhaus in the world of wibutler. State detection for windows and doors

Do you know this feeling? You ask yourself whether all windows are closed at home whilst on the move. From now on, there is no longer the need to worry about this question, because thanks to the Winkhaus radio contacts you can easily verify the state of your windows by app, even if you are absent. The wireless technology allows the integration of your windows and doors into a Smart Home application (e. g. wibutler). Winkhaus radio contacts use the EnOcean standard for communication and thus there are a lot of products of different manufacturers to choose from. They can easily be connected to intelligent systems. In this way it is possible, for instance, to control the heater in a way to turn off automatically when the window is opened. Likewise, prying open the window might entail a command to switch on the light.

### Smart home

The smart wibutler homeserver combines products of different manufacturers and radio technologies, being equally suited for small automation projects as well as for complex integration into the building technology of any home. You can use the free wibutler App to link the individual components easily, enabling remote control and state monitoring. Please find further information on wibutler at: [www.wibutler.de](http://www.wibutler.de) A study forecasts Smart Home to be the future standard in housing.



Can handle the following radio protocols: EnOcean, Z-Wave, Bluetooth, ZigBee, WiFi

# Product description of contactors

## General

The contactors are fitted to the sash which can be done in two different variants: The moving contactors are integrated directly in the fitting parts, moving along when the window handle is operated. This makes them suitable for use in opening and locking surveillance. The rigid contactors are screw-fixed on the fitting's faceplate or in the fitting groove and for this reason they are only suited for opening surveillance.

### Corner drive E1.VS-RFID

- Corner drive with a moving RFID contactor and a locking bolt

### Interlocking rod MK.VS-RFID.250-1

- Interlocking rod with a moving RFID contactor

### Interlocking rod MK.VS-RFID.250.1+1

- Interlocking rod with a moving RFID contactor and a locking bolt

### Contactor VS-RFID-G-0,5/4

- RFID contactor for push-rod fitting systems

### Corner drive E1.VS.KG.F

- Corner drive with a moving magnetic contactor and a locking bolt

### Interlocking rod MK.VS.150.KG

- Interlocking rod with a moving magnet contactor

### Interlocking rod MK.VS.250.KG

- Interlocking rod with a moving magnet contactor

### Interlocking rod MK.VS.250-1+1.KG

- Interlocking rod with moving magnetic contactor and locking bolt

### Contactor VS.KG.05-4

- Magnetic contactor for push rod fittings

### Contactor VS.KGS.04

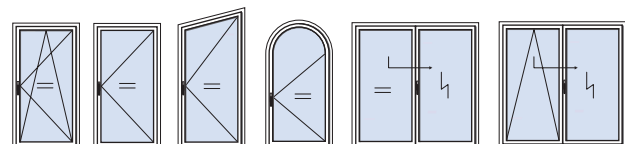
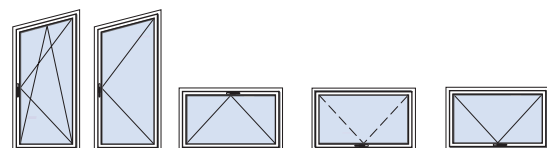
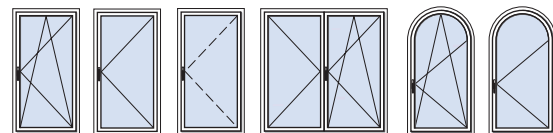
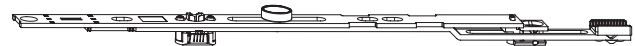
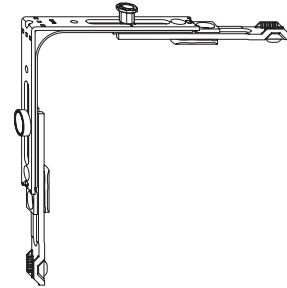
- Rigid magnetic contactor for installation on the fitting's faceplate

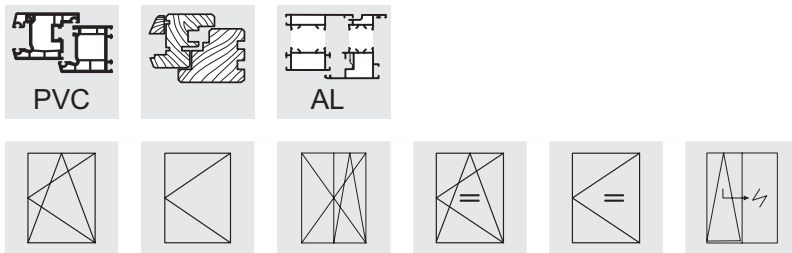
### Contactor VS.KGS.06

- Rigid magnet contactor for installation into the fitting groove

### Contactor VS.KG.04

- Rigid magnetic contactor for installation on the fitting's faceplate

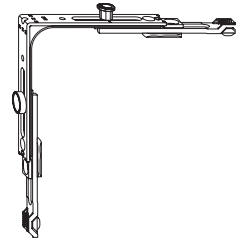




## Moving RFID contactors

### Corner drive E1.VS-RFID

- RFID contactor for RFID locking sensor VS-A/C-RFID.06
- Corner drive with RFID contactor
- Safety locking pin as an adjustable octagonal bolt
- Central fastening as standard
- Automatic and manual assembly possible



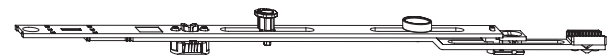
### Interlocking rod MK.VS-RFID.250-1

- RFID contactor for RFID locking sensor VS-A/C-RFID.06
- Interlocking rod with RFID contactor
- Central fastening as standard
- Extendable interlocking rod, can be combined with Winkhaus standard gearing



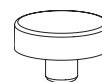
### Interlocking rod MK.VS-RFID.250-1+1


- RFID contactor for RFID locking sensor VS-A/C-RFID.06
- Interlocking rod with RFID contactor and locking bolt
- Safety locking pin as an adjustable octagonal bolt
- Central fastening as standard
- Automatic and manual assembly possible
- Extendable interlocking rod, can be combined with Winkhaus standard gearing



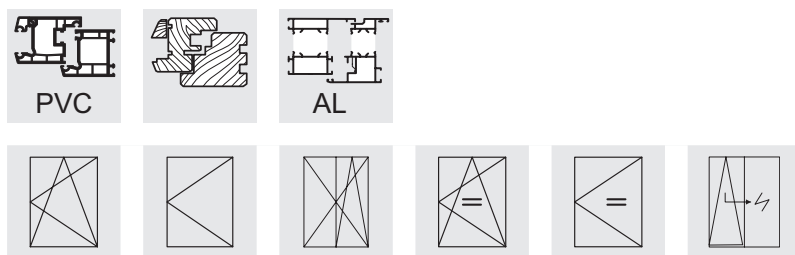
### Contactor VS-RFID-G-0,5/4

- RFID contactor for RFID locking sensor VS-A/C-RFID.06
- Fitting-independent RFID contactor for push rod fittings
- Airgap of 10 to 15 mm



Item description	Item No.		Bolt height	Thread length	Airgap from / to	VPA1 Qty./Type	VPA2 Qty./Type	VPA3 Qty./Type
E1.VS-RFID	5045830	4	-	-	10 - 15	100 KK	800 EK	
{MK.VS-RFID.250-1}	5045831	2	-	-	10 - 15	20 BD	100 KK	800 EK
{MK.VS.RFID.250-1+1}	5045832	2	-	-	10 - 15	20 BD	100 KK	800 EK
{VS-RFID-G-0,5,5/4}	5045833	-	5,5	4	10 - 15	20 BL	200 KK	1600 EK





## Moving magnet contactors

### Corner drive E1.VS.KG.F

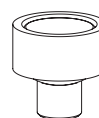
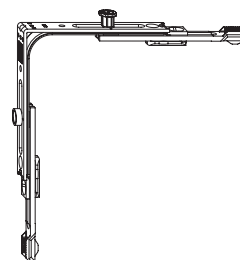
- Magnet contactor for magnetic/locking sensors  
VS.BK.06, VS.DIBT.06 or FM.V
- Corner drive with magnetic contactor
- Safety locking pin as an adjustable octagonal bolt
- Central fastening as standard
- Automatic and manual assembly possible
- Clampable in fitting groove


### Corner drive E1.VS.KG.F.LK.GR

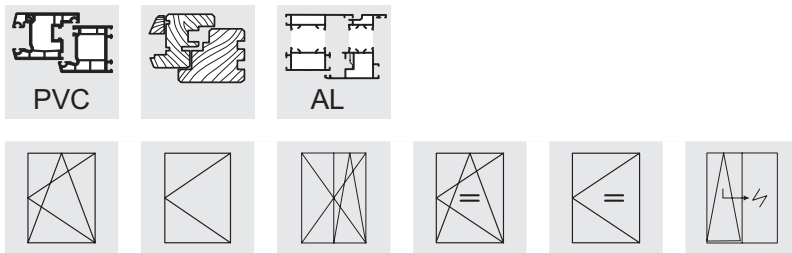
- As described above, but with an additional surface coating  
for protection against particularly high corrosion impact

### Contactors VS.KG.06-4

- Magnet contactor for magnetic/locking sensors  
VS.BK.06, VS.DIBT.06 or FM.V
- Magnet contactor for push rod fitting systems,  
independent of fitting groove
- Height of bolt: 6 mm
- Thread length: 4 mm



Item description	Item No.		Airgap from / to	VPA1 Qty./Type	VPA2 Qty./Type	VPA3 Qty./Type
{E1.VS.KG.F}	4994391	4	10 - 15	100 KK	2400 EK	
{E1.VS.KG.F.LK.GR}	5050858	4	10 - 15	100 KK	800 EK	
{VS.KG.06-4}	5001348	0	12 - 17	10 BL	500 KK	12000 EK



## Moving magnet contactors

### Interlocking rod MK.VS.250.KG

- Interlocking rod with magnetic contactor
- Magnetic contactor for magnet locking sensors VS.B..., VS.BK.06, VS.K.06, VS.DIBT.06 or FM.V
- Central fastening as standard
- Extendable interlocking rod, can be combined with Winkhaus standard gearing
- Face plate length 250 mm



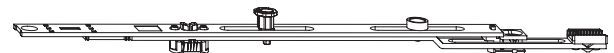
### Interlocking rod MK.VS.250.KG.LK.GR

- As described above, but with an additional surface coating for protection against particularly high corrosion impact




### Interlocking rod MK.VS.150.KG

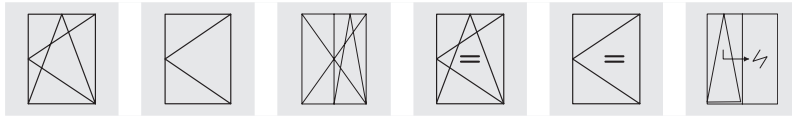
- Identical to MK.VS.250.KG, but with a face plate length of 150 mm



### Interlocking rod MK.VS.250-1+1.KG

- Magnetic contactor for magnet locking sensors VS.B..., VS.BK.06, VS.K.06, VS.DIBT.06 or FM.V
- Interlocking rod with magnetic contactor and locking bolt
- Safety locking pin as an adjustable octagonal bolt
- Central fastening as standard
- Extendable interlocking rod, can be combined with Winkhaus standard gearing
- Face plate length 250 mm

Item description	Item No.		VPA1 Qty./Type	VPA2 Qty./Type	VPA3 Qty./Type
{MK.VS.250.KG}	4966406	2	20 BD	100 KK	800 EK
{MK.VS.250.KG.LK.GR}	5050859	2	20 BD	100 KK	800 EK
{MK.VS.150.KG}	4992161	2	20 BD	100 KK	800 EK
{MK.VS.250-1+1.KG}	5015476	2	20 BD	100 KK	800 EK

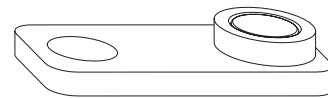


## Rigid magnetic contactors



### Contactor VS-KGS.04

- Magnetic contactor for magnet locking sensors VS.B..., VS.BK.06, VS.K.06, VS.DIBT.06 or FM.V
- Magnetic contactor, width 14 mm
- Reduced installation height (4 mm); it enables installation for 12 mm airgap
- Mounted on the fitting's face plate
- Construction height: 4 mm

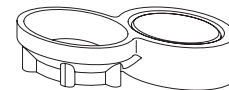


### Contactor VS.KGS.06

- Magnetic contactor for magnet locking sensors VS.B..., VS.BK.06, VS.K.06, VS.DIBT.06 or FM.V
- Magnetic contactor, width 16 mm
- Installed in the fitting groove
- Construction size 6 mm

### Contactor VS.KG.04

- Magnetic contactor for magnet locking sensors VS.B..., VS.BK.06, VS.K.06, VS.DIBT.06 or FM.V
- Fitted to the face plate by means of a countersunk screw M5 x 6 mm, DIN ISO 7046 (not included in the scope of delivery)
- Reduced installation height (4 mm); it enables installation for 12 mm airgap
- Construction height: 4 mm



Item description	Item No.	Airgap from / to	VPA1 Qty./Type	VPA2 Qty./Type	VPA3 Qty./Type
{VS.KGS.04}	5001346	10 - 15	10 BL	500 KK	12000 EK
{VS.KGS.06}	5001347	10 - 15	10 BL	500 KK	12000 EK
{VS.KG.04}	5001349	10 - 15	10 BL	500 KK	12000 EK

# Mounting Instructions

## General

These mounting instructions specify the installation and the electrical connection of the Winkhaus locking sensors to a window or patio door. Any person involved in mounting fittings must have read and understood this fitting guide. Particularly the following section "Safety Instructions" must be observed.

## Security advice / Mounting conditions

In order to guarantee that the locking sensors work impeccably, fitting must be performed according to the specifications of the manufacturer.



Important: The installation work may only be performed by specialised and safety-conscious staff.

Generally it is important to observe the stipulations of VdS Schadenverhütung GmbH (VdS guidelines) regarding burglary alarm systems. Furthermore please make sure that the electrical connection and performance data of the individual components are compatible and that they are adhered to even while the system is used. The following points require verification:

- Does the burglar alarm system satisfy the valid specifications and classifications (A, B, C according to VdS)?
- Are there precise mounting and installation instructions for the burglary alarm system?
- Are the conductor cross sections of the connection cables compatible and can the connection be implemented in accordance with the installation instructions?



Important: The locking sensor must not be used in steel windows, because magnetic interference fields might affect its function. Please make sure to use only the supplied fixing screws.

## Intended use

Contact on the sash in combination with locking sensors VS.B... and VS-AC/C-RFID. The locking sensor is exclusively intended for the surveillance of windows and patio doors in burglary alarm systems. These locking sensors have received a VdS approval (VdS = Verband der Schadenversicherer e. V. = association of property insurers). For the installation the guidelines for intrusion detection systems (EMA) must be observed. In the VdS guideline for intrusion detection systems VdS 2311:1998-12 it is stated in point 10.1.1 ABC Selection of detectors:

"The choice and use of detectors must be made with the aim to ensure a safe detection and operation without giving false alarms while considering the monitoring role, ambient conditions and the installation instructions of the system supplier / manufacturer." Winkhaus locking sensors and contactors are exclusively intended for the use described above. Any other utilisation is improper utilisation. We do not assume any liability in case of improper installation or mounting and if third-party or non-approved system components are used! Moreover, the VdS approval is void in this case. Sash-side contactor in combination with locking sensor VS.K.06: The locking sensor signal is intended for controlled ventilation. As an example, this may include the control of power supply units switching off the heating when the window is open. Sash-side contactor in combination with locking sensor VS.DIBT.06: A room air dependent fireplace requires the signal of the locking sensor, in order to guarantee the supply of fresh air for an exhaust air device, such as an extractor hood, which in those cases only can be used when the window is open. If it is not, the exhaust air device might draw CO<sub>2</sub> gases from the fireplace into the room which are life-threatening to men if inhaled. Sash-side contactor in combination with wireless contacts FM.V and FM.A from the Winkhaus smartHome product range: Coupled with the radio switch relay the wireless contacts can be integrated into a burglary alarm system and they are thus particularly suited for retrofit, as cables needn't be laid. Furthermore it is possible to integrate the wireless contacts into a Smart Home system (e. g. wibutler) to control the opening state of a window conveniently by smartphone.

## Cabling (general information)

We recommend you to lay the locking sensor cables in empty conduits. Furthermore it is advisable to loop the cable on the window frame to allow for later adjustment.

### Cable extension or replacement of defective locking sensors for intrusion detection systems according to VdS guideline

It is not allowed to cut or modify the existing line on the window. The line / the locking sensor must be completely replaced. According to the VdS guideline it is not allowed to connect a new locking sensor to the old cable.

For this reason we recommend you to lay the cable in an empty conduit. If the exchange is not possible you may need to lay new cables for the new locking sensor on the wall or the window up to the connection point.

Reason: 1. The cable is part of the component group certified and constructed to the VdS guidelines. This component group must not be modified or manipulated afterwards. A subsequent alteration will automatically void the VdS approval.

2. The component group "locking sensor" complies with the IP67 requirement. When it is extended at will, this requirement is usually not satisfied any longer. This means that the approval would also be void.

3. Product liability: The cable is an integral part of the locking sensor and must not be modified afterwards. Extending the cable means a modification of the product. This product modification will entail the manufacturer's exemption from product liability.

### Scope of supply

The package contents is always restricted to one type of locking sensors as well as fixing screws and adapters FT1, FT4 and FT5.

## 10.1 Installation of locking sensors

### Positioning

In order to ensure the exact positioning of the locking sensors, we recommend to complete the installation of the sash-side contactors at first. The installation position of the locking sensor depends on the chosen position of the sash-side contactor (see overview of applications and installation position on following pages).

### Cabling

Loop the cable within the frame to allow for later adjustment of the locking sensor. It is not allowed to cut or modify the existing line on the window. The line and the locking sensor must be completely replaced. It is not allowed to connect a new locking sensor to the old cable (only applies to intrusion detection systems to VdS guideline). It is therefore recommended to lay the cable in an empty conduit. If the exchange is not possible you may need to lay new cables for the new locking sensor on the wall or the window up to the connection point.

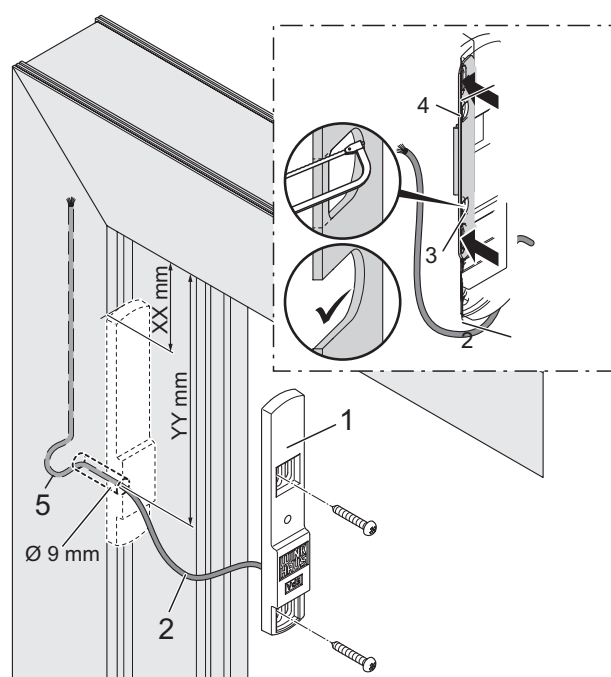
### Manual assembly

The locking sensor is supplied with three adapters in order to enable adaption to different frame profiles. The overview on the next page shows which adapter matches which frame profile.

- Drill the passage hole for the cable (2) with Ø 9 mm.
- If necessary, pre-drill the fixing points.
- If a spacer is used, remove the ridge (3) in order to pass the cable through easily. Clip the spacer (4) onto the locking sensor (1).
- Lead the cable through the Ø 9 mm drill hole.
- Fix the locking sensor.
- Loop (5) the cable (2) at the exit of the drill hole and lay the cable along the frame.



Be careful: When mounting the locking sensor, please make sure the cable isn't damaged!



Winkhaus activPilot fittings with contactors

1. Locking sensor
2. Cable
3. Ridge
4. Adapter
5. Cable loop

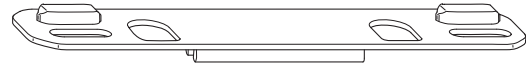


Note: For airgaps exceeding 16.5 - 20.5 mm please use a profile-independent adapter FT.RFID.N.4 for the locking sensor.

Profile-specific adapters (included in the scope of delivery):

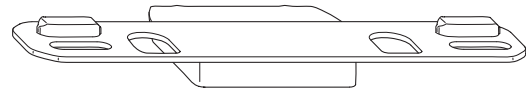
#### FT1

Aluplast 2000 - 8000  
Brüggmann  
Deceuninck  
Dimex  
Gealan  
Internova 6000  
KBE  
KBE (9 mm groove pos.)  
Kömmerling  
LB. Profile  
Plustec  
Rehau  
Roplasto 6002 / 7001  
Salamander  
Schüco CT 60 / CT 70  
Tropical A5 / M5  
VEKA  
Wymar 2500 / 3000



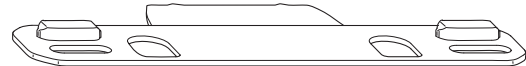
#### FT4

{Tropical 2000 / 88+}



#### FT 5

{Inoutic}



Profile-independent adapters (must be ordered separately)



FT.RFID.N.4  
(Installation height 4 mm)  
Item no. 4938913

## 10.2 Assembly of contactors

### Magnetic / RFID contactors

#### Positioning

Possible mounting positions of the contactor for different applications are shown in the overview of applications and on the following pages.

#### Moving contactors

The process to follow when mounting the sash-side contactors is the same as for standard activPilot fitting parts.



Important: The sash-side signal contact must not be used as a locking point. The function of the fitting must not be obstructed by the signal contact. With regard to burglar-proof windows, the sash-side signal contact must by no means replace a security locking point, but must be installed separately.

#### Installing corner drive with contactor

The preferred variant for turn-tilt windows are corner drives E1.VS.KG and E1.VS.RFID that can be mounted on top or bottom on the drive side.

#### Mounting the interlocking rod with contactor

If your window or patio door is equipped with a Winkhaus fitting offering the suitable dimensions, you can use the interlocking rods MK.VS.150.KG, MK.VS.250.KG, MK.VS.250-1+1.KG, MK.VS-RFID.250-1 or MK.VS-RFID.250-1+1. In case of sufficient space you can fix the interlocking rod at various locations on the window or the patio door:

- between top rod and corner drive
- on the drive rod
- on the corner drive

#### Rigid contactors

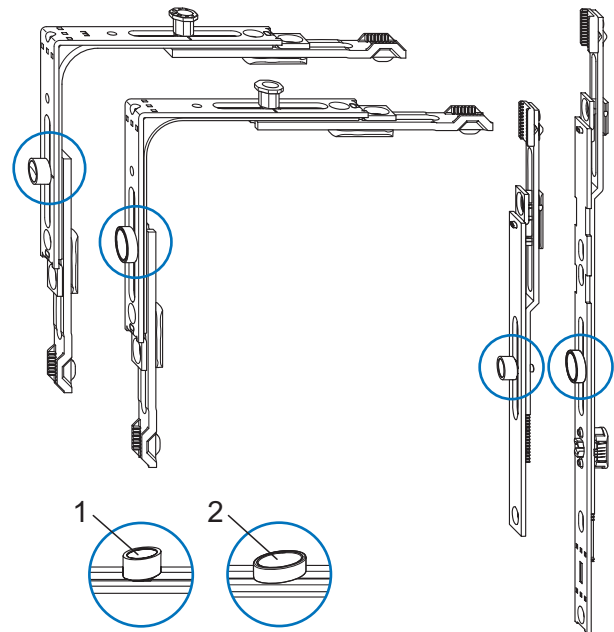
The rigid contactors are installed in the screw positions on the fitting system or within the fitting groove.



Note: All locking sensors and contactors are sensitive to impact. Please absolutely avoid vibrations and shocks. After receipt please check all components for transport damages.



Note: In order to ensure the exact positioning of locking sensors, we recommend you to complete the installation of the sash-side contactors at first. The installation position of the locking sensor depends on the chosen position of the sash-side contactor. The locking sensor must be installed in a way to protect the locking sensor and the cables from manipulation from the outside.



Winkhaus activPilot fittings with contactors  
1. Magnetic contactor  
2. RFID contactor

## 10.3 Mounting position

### General

Fitting-controlled sash-side contactors can be used as combined locking and opening surveillance systems in combination with the locking sensors VS.B... and VS-AC/C-RFID approved by VdS Schadenverhütung GmbH. In case of an intrusion detection system with pure opening surveillance to VdS, rigid contactors are installed in the sash instead of the fitting-controlled contactors. For installation please observe the guidelines for burglary alarm systems.



**Important:** For VdS-approved burglary alarm systems it is generally not allowed to install the contactors on the hinge side.



**Remark:** The correct positions for the individual application cases are illustrated in the overview "Application cases".

If in special cases certain specifications cannot be satisfied, it is always necessary to discuss this matter with the installer of the alarm system.

### Positioning of the locking sensors towards the contactors

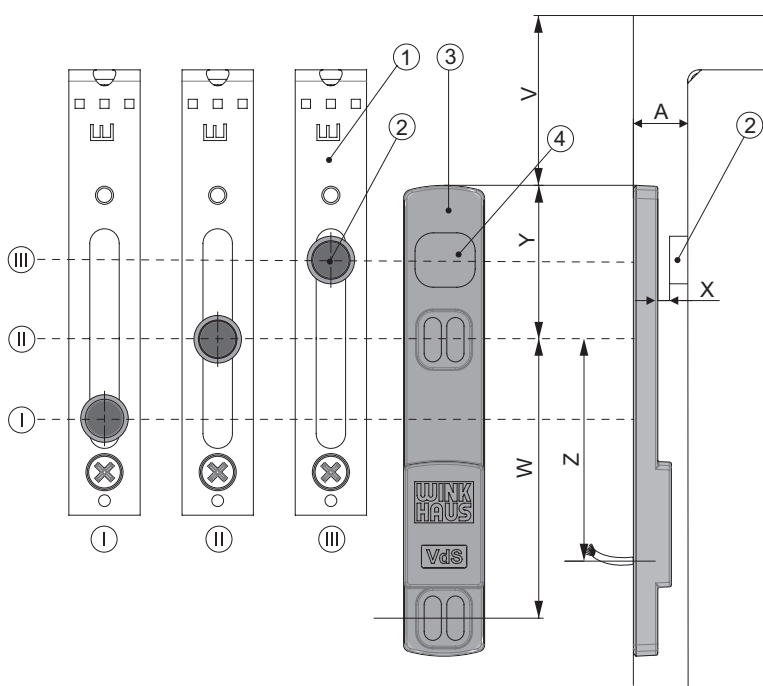
In order to ensure the exact positioning of the locking sensors, we recommend to complete the installation of the sash-side contactors beforehand. The installation position of the locking sensor depends on the chosen position of the sash-side contactor. The locking sensor must be installed in a way to protect the locking sensor and the cables from manipulation from the outside. The following illustrations show the alignment of locking sensors towards the contactors for the different monitoring types.

### Drawings for installation and drilling jigs

In order to enable quick assembly and exact positioning of locking sensors, there are drilling jigs for many current positions of contactors. Drilling jigs are portrayed in chapter 10.4 "Drilling jigs". How to use the jigs is described in chapter 10.5 "Installation drawings".

### Combined opening and locking surveillance

The contact keeps are positioned on the window frame in a way to enable the contactor to be located above the receiver unit in the closed state of the window. Note: The locking sensor may only detect the window to be closed when the locking bolts have entered at least 50 % into the keeps.



#### • Position of the contactor

- I Tilt
- II Turn
- III Lock

#### • Components

- 1 Corner drive
- 2 Contactor
- 3 Locking sensor
- 4 Receiver unit

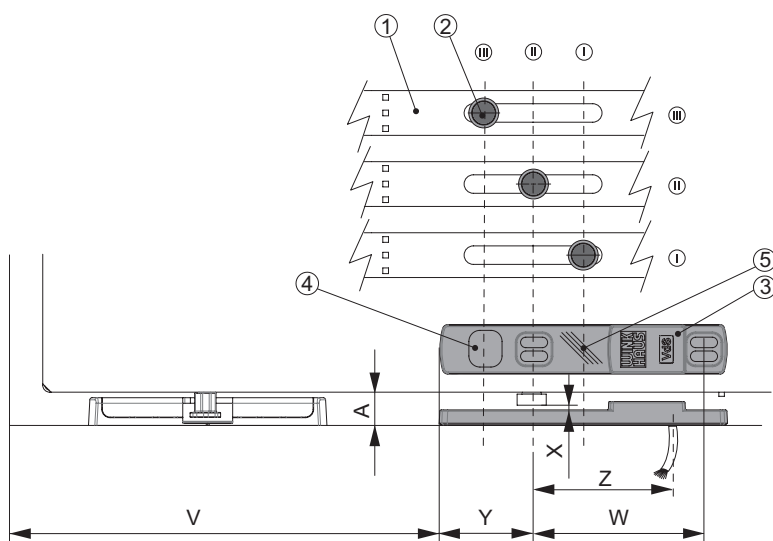
#### • Dimensions (for 9 to 13 mm groove position):

- A airgap
- V 36 mm
- W 61.5 mm
- X 0 to max. 5 mm
- Y 34 mm
- Z 49 mm



### Combined opening and locking surveillance with monitored tilt position

The contact keeps are positioned on the window frame in a way to enable the contactor to be located above the receiver unit in the closed state of the window and in the window position "tilt" the moving contactor is located above the tilt sensor VS.BK.06.



	V
MK.VS.250.KG	206 mm
MK.VS.150.KG	155 mm

#### • Position of the contactor

- I Tilt
- II Turn
- III Lock

#### • Components

- 1 Interlocking rod
- 2 Contactor
- 3 Locking sensor
- 4 Receiver unit
- 5 Tilt sensor for VS.BK.06

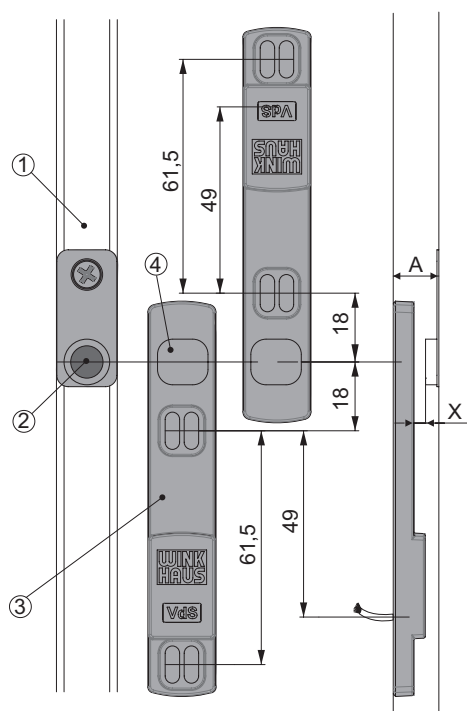
#### • Dimensions (for 9 to 13 mm groove position):

- A airgap
- W 61.5 mm
- X 0 to max. 5 mm
- Y 34 mm
- Z 49 mm

The installation dimension V depends on the used interlocking rod.

### Opening surveillance

The contactor is fixed to a screw position or in the fitting groove with the contact keep being positioned in a way to enable the contactor to be located above the receiver unit in the closed state of the window.



#### • Dimensions (for 9 to 13 mm groove position):

- A airgap
- X 0 to max. 5 mm

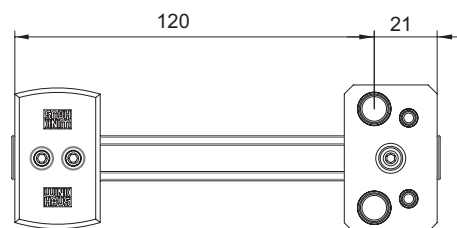
#### • Components

- 1 Fitting groove
- 2 Contactor
- 3 Locking sensor
- 4 Receiver unit

## 10.4 Drilling jigs

### Drilling jigs for E1.VS...

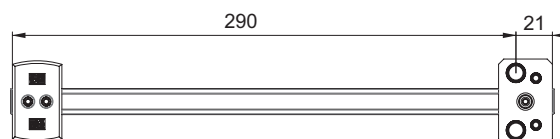
- Drilling jig for VS-A/C-RFID.06, VS.B.06, VS.B.25, VS.K.06
- For use of corner drives E1.VS.KG.F and E1.VS-RFID
- For application cases 1 + 2 + 3 + 4 + 6, see chapter 4.2
- Installation drawings chapter 10.5
- Preferred variant of all locking surveillance systems in turn-tilt windows



VS A/C RFID  
4937653

### Drilling jigs for interlocking rod MK.VS.250...

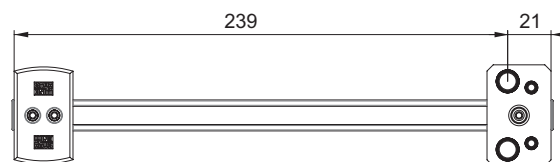
- Drilling jig for Winkhaus locking sensors VS-A/C-RFID.06, VS.B.06, VS.B.25, VS.K.06, VS.BK.06
- For application cases 1 + 2 + 3 + 4 + 6 see chapter 4.2
- For interlocking rods VS.MK.250.KG or MK.VS-RFID.250-1
- Installation drawings chapter 10.5
- Preferred variant for VS.BK.06 locking sensor



VS.BK.06+VS.MK.250.KG  
4994466

### Drilling jigs for interlocking rod VS.MK.150.KG

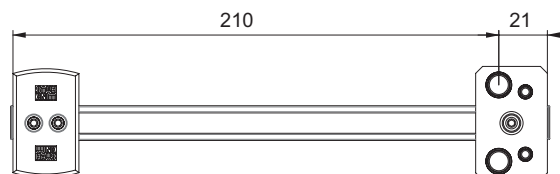
- Drilling jig for Winkhaus locking sensors VS.B.06, VS.B.25, VS.BK.06 and VS.K.06
- For application cases 1 + 2 + 3 + 4 + 6 see chapter 4.2
- Installation drawings see chapter 10.5
- Preferred variant for VS.BK.06 locking sensor



VS.BK.06+VS.MK.150.KG  
5007495

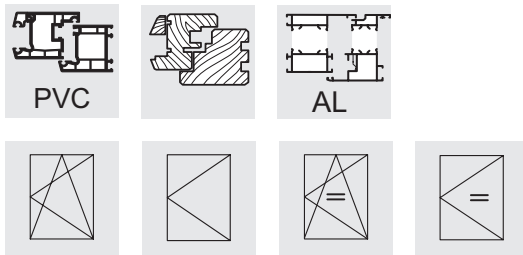
### Drilling jigs for rigid contactors VS.KGS.04

- Drilling jig for Winkhaus locking sensors VS.K.06 and VS.DIBT.06
- For application cases 4 and 5, see chapter 4.2
- Installation drawings see chapter 10.5
- Assembly on the hinge side ONLY in case of climate and exhaust air control



VS.K06+VS.KGS.BANDSEITIG  
4994467

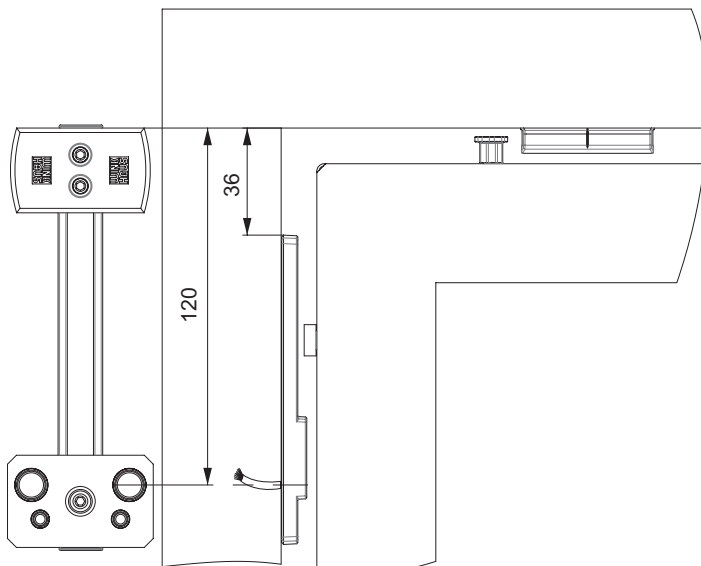
Item description	Item No.
{LE.BVS A/C RFID}	4937653
{LE.VS.BK.06+VS.MK.250.KG}	4994466
{VS.BK.06+VS.MK.150.KG}	5007495
{LE.VS.K06+VS.KGS.BS}	4994467



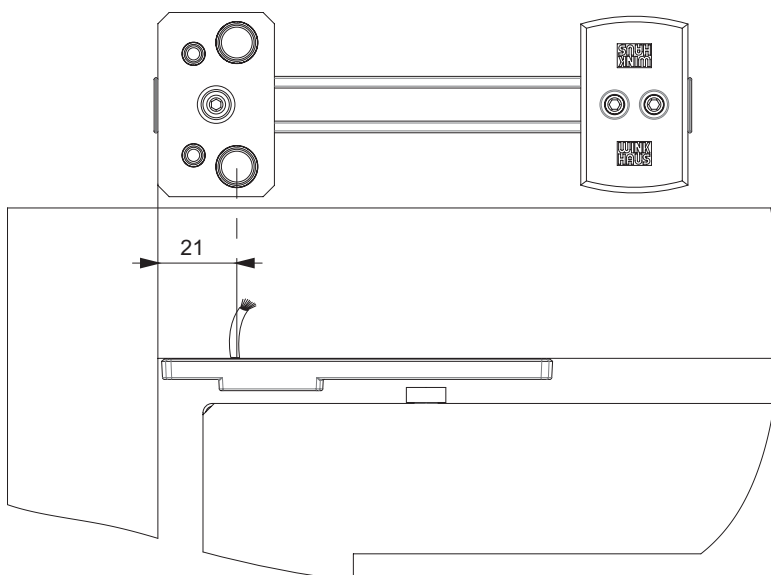
## 10.5 Installation drawings

### Drilling jig for corner drives E1.VS...

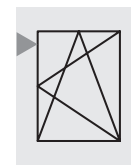
- For use with corner drives E1.VS-RFID, E1.VS.KG and E1.VS.KG.F
- How to use the drilling jig VS A/C RFID
- For Winkhaus locking sensors VS-A/C-RFID.06, VS.B.06, VS.B.25, VS.K.06

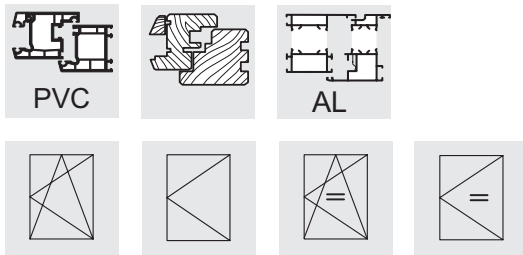


Preferred variant of all locking surveillance systems in turn-tilt windows  
Installation of locking sensor on the handle side



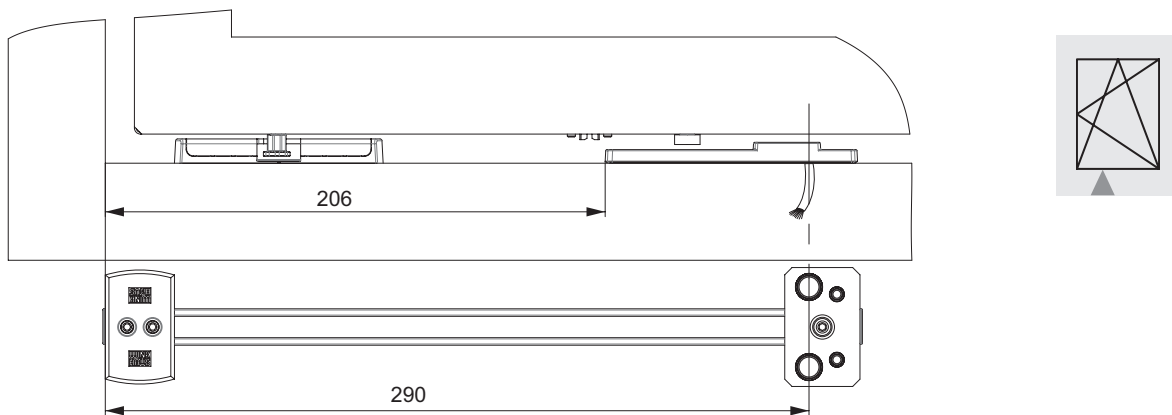
Horizontal installation of the locking sensor





#### Drilling jigs for interlocking rods VS.MK.250...

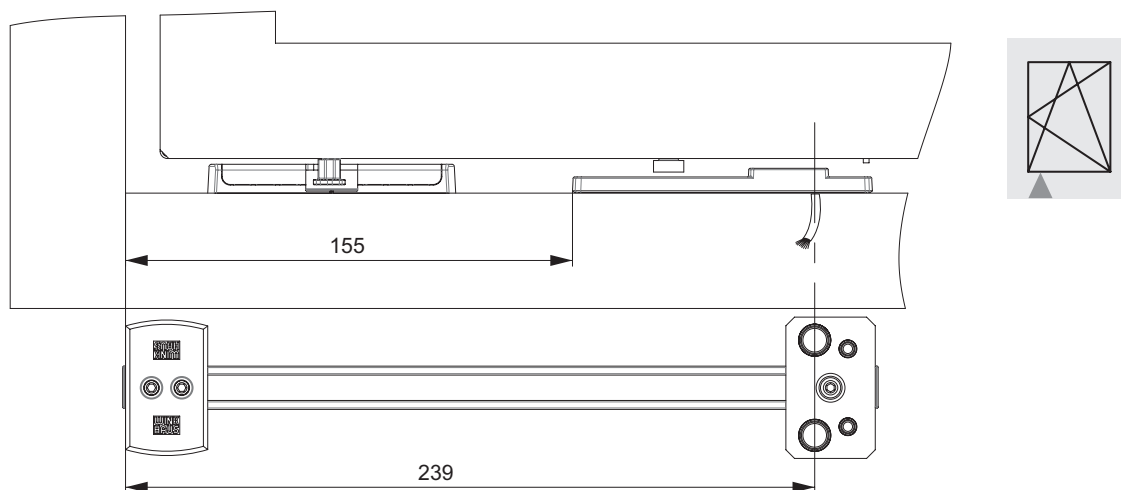
- How to use the drilling jig VS.BK.06+VS.MK250KG
- For use of interlocking rods VS.MK.250.KG and VS.MK-RFID.250-1
- For Winkhaus locking sensors VS-A/C-RFID.06, VS.B.06, VS.B.25, VS.BK.06, VS.K.06, VS.FM.V



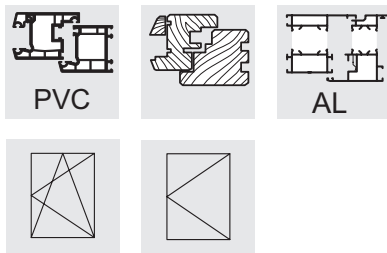
Preferred variant for VS.BK.06 locking sensor

#### Drilling jigs for interlocking rod VS.MK.150.KG

- How to use the drilling jig VS.BK.06+VS.MK150KG
- for the Winkhaus locking sensors: VS.B.06, VS.B.25, VS.BK.06 VS.K.06, VS.FM.V

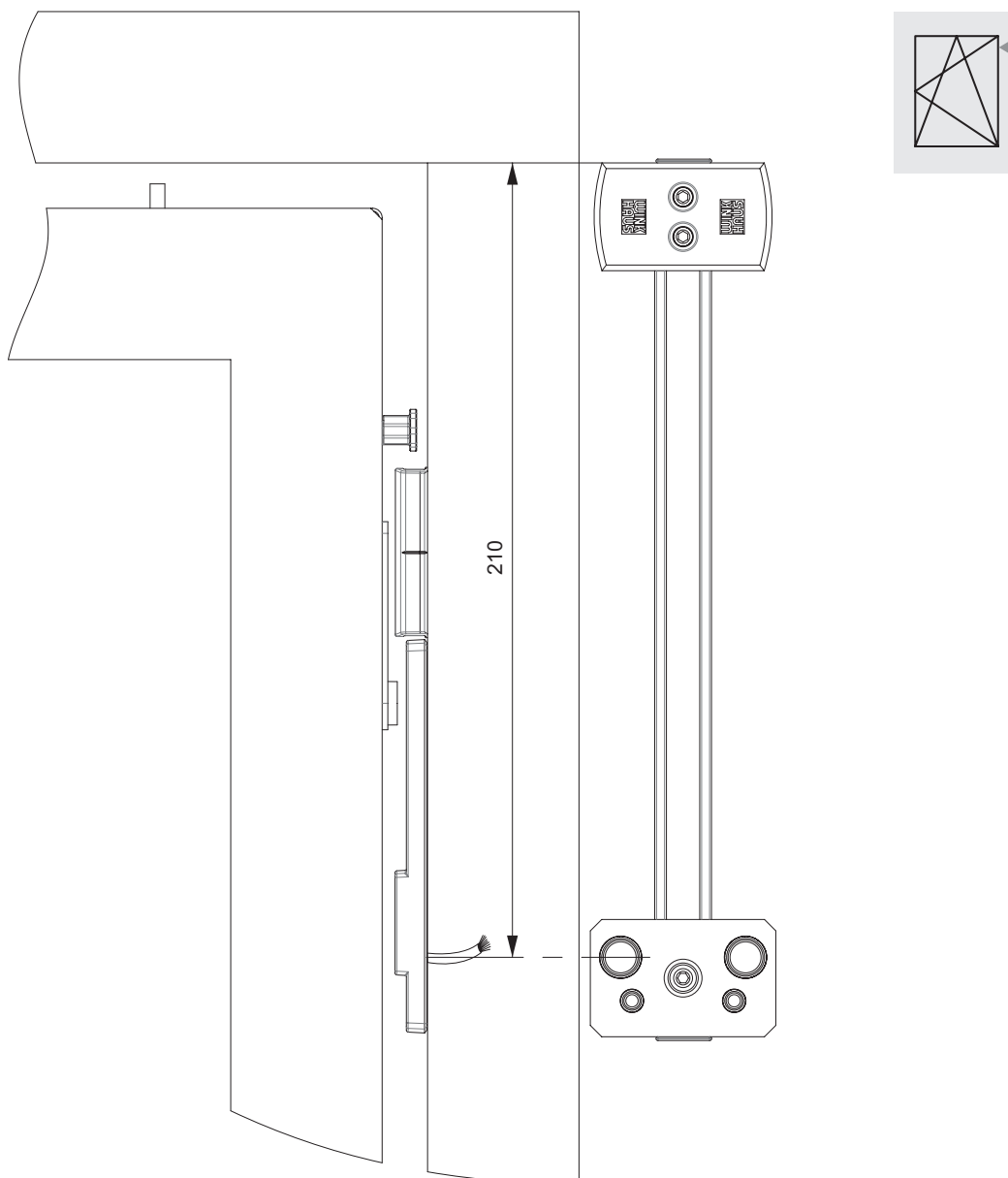


Preferred variant for VS.BK.06 locking sensor



#### Drilling jig VS.K06+VS.KGS.BANDSEITIG

- for climate and exhaust air control
- How to use the drilling jig VS.K06+VS.KGS.BANDSEITIG
- For use of contactor VS.KGS.04
- For Winkhaus locking sensors VS.K.06 VS.DIBT.06



Preferred variant for VS.K.06 and VS.DIBT.06 locking sensors

## 10.6 Operating and mounting instructions of DIBt exhaust air control

### SR.ST.DIBT / SR.EB.DIBT

These mounting instructions are intended for the devices SR.ST.DIBT (connector version) / SR.EB.DIBT (installed version). They include important information concerning start-up and handling. Please bear this in mind also in case you submit the device to third parties. Keep the operating instructions in a safe place for reference! For damage resulting from non-observance of these instructions any warranty claim will expire. We will accept no liability for any consequential damage.

#### Introduction

This device complies with the requirements of the applicable European and national guidelines. The conformity has been approved; the manufacturer is in possession of the relevant declarations and documents. In order to maintain this condition and to assure safe operation, all notes and warnings included in the operating instructions must be observed by the user!

#### Intended use

These devices are tools for increasing the security during operation of an exhaust air device, e. g. an extractor hood. The exhaust air device is only switched on if there is an open door or window allowing pressure compensation with the outside. The required locking sensor VS.DIBT.06 must be installed as described in the chapter Mounting Instructions. This device is also suitable for other consumers, in order to switch on the light by opening a door, for instance. The SR.ST.DIBT switch relay is allowed for connection to a shockproof socket 230 Volt 50 Hz (10 / 16 A). Application is restricted to closed and dry rooms. Contact with humidity must be imperatively avoided. The device is not suited for use in the industrial sector. Furthermore it must not be used for any other intentions than those described before. What is more there are risks such as short circuits, electric shocks etc if the security instructions are not observed. The switch relay is capable for use as security tool for controlling the window position during simultaneous operation of a room air-specific fireplace and an exhaust air device. This assumes that the combustion air supply of the simultaneously-operated fireplace is guaranteed, independent of the controlled window's position.



Remark for installed version SR.EB.DIBT: The advantage of this version is the ventilator motor on an extractor hood being switched off with the light remaining fully functional. Please note: feature depends on extractor hood!

#### Safety instructions

For damage resulting from non-observance of these instructions any warranty claim will expire! We will accept no liability for any consequential damage! For material or personal injuries caused by improper handling or non-observance of security instructions we cannot accept any liability at all! In such cases any warranty claim is void.



Note 1: The control of fresh air supply cannot be replaced, but only supported with this device.  
Note 2: Installed device SR.EB.DIBT: The installation of the switch relay requires expert knowledge and hence must only be performed by specialised persons.

For reasons of security and approval, unauthorised retrofit and / or modification of this device is not allowed. Please make sure that all electrical connections and connection lines between the device and possible extension lines are according to general instructions and mounting instructions. Never put the device to operation immediately after it was taken from a cold into a warm room. The condensation water that is formed may destroy the device. Let the device warm up to room temperature without switching it on. Wait until the condensation water has evaporated. It is important not to interrupt the protective conductor (yellow/green), neither in the mains lead or a connected extension line nor in/on the device itself, as interrupted protective conductors provide a serious danger to life. Operation without a protective conductor connection is not allowed. Never pour liquids over the device. There is an extreme risk of fire or life-threatening electric shocks. If such a case nevertheless occurs, unplug the device (SR.ST.DIBT) from the mains socket and turn to a specialised person. Electrical devices must not get into the hands of children. Always be particularly careful in the presence of children, because they might try to put objects into the device. There is a risk of life-threatening electric shocks. This device not being a children's toy, keep it away from them. If you consider that a risk-free operation is no longer possible, stop and disconnect the device (unplug SR.ST.DIBT from mains socket) and protect it against unintended use.

Before cleaning or maintaining the device, please absolutely observe the following safety advice: When covers are opened or housing parts removed, live elements may be exposed. Hence the device must be separated from all voltage sources and connections before performing maintenance or repair measures. Condensators in the device may still be charged, even if they were disconnected from all voltage sources. Repairs may only be carried out by specialised persons knowing about the associated risks and relevant instructions. In commercial facilities the accident prevention regulations of the commercial trade association for electrical systems and equipment must be respected. In case you are uncertain about the correct connection or you have questions about the way of operation and safety of the device which are not answered in the operating instructions, please do not hesitate to contact our technical staff or another specialist in this field. Do not thoughtlessly leave the packaging material lying around. Plastic foil and bags or polystyrene parts etc. may become dangerous toys for children.

#### Mounting the magnet switch set

Before starting the assembly, it is vital to determine the minimum gap opening of the window. The latter depends on:

- the performance of the exhaust air device in  $\text{m}^3/\text{h}$
- the size of the window to be opened in  $\text{m}^2$
- the size of the opening gap on the window in cm



Be careful! If the window selected for this installation is equipped with an external blind, the latter must not be closed during operation of the switch relay. Please adhere the attached sticker including this warning to the window or somewhere next to it where it is clearly visible!

#### Calculation of the minimum gap opening of your window

If the window is of another shape than rectangular, please ask a specialised fitter or qualified chimney sweep how to calculate the minimum opening. In most cases you will realise that the gap dimension of your window in the tilt position is larger than required. In this case the magnet switch and magnet are mounted as shown in the illustration on the next page:

- Read the exhaust air performance from the name plate of your extractor hood / exhaust air system in  $\text{m}^3/\text{h}$ .
- Measure the internal width and height of your window and determine the window size in  $\text{m}^2$   
(width x height =  $\text{m}^2$ ; e. g. 1.0m x 1.1m = 1.1 $\text{m}^2$ ).
- You can gather the required gap opening dimension from the table on the next page.

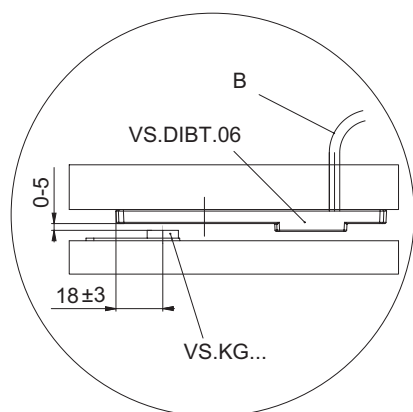
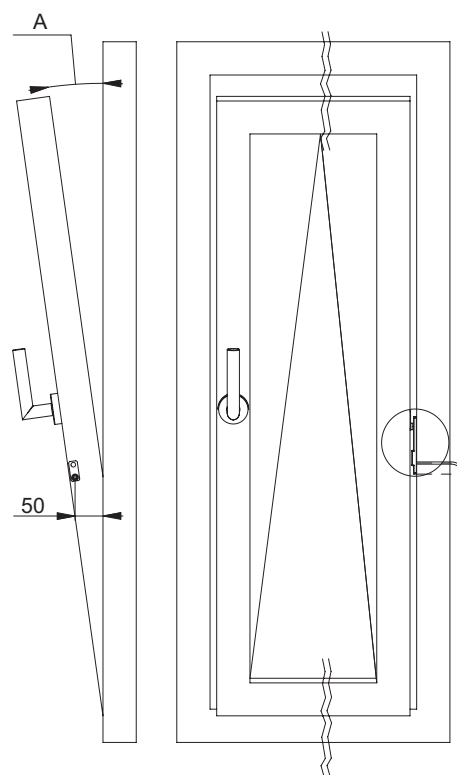
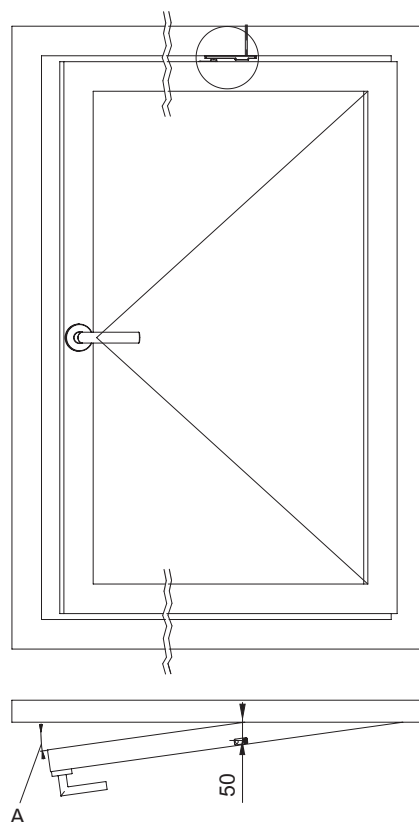
#### Remark 1

When the window is open the distance between magnet and magnet switch must be large enough. Mount the magnet switch set in a place to allow a distance between the magnet and the magnet switch of at least 50 mm (see illustration on next page). How to install the magnet switch on a turn window instead of a tilt window is shown on the next page. Fixation is identical to a tilt window.

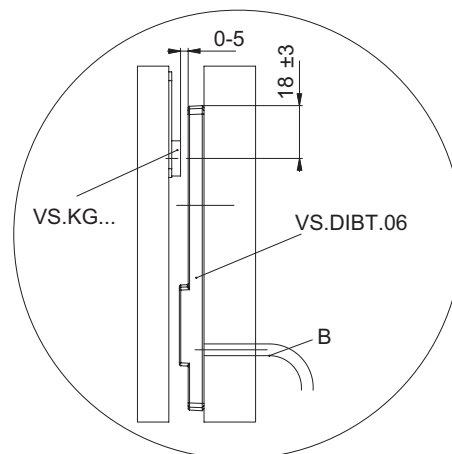
- The locking sensor is fixed to the window frame and the magnet to the window sash. The legislator stipulates a mechanical fixation of the two parts.
- The distance between magnet switch and magnet shouldn't be more than 5 mm.
- Install the two parts according to the illustration.



If you realise that the gap dimension of your window in the tilt position is smaller than indicated in the table of specified opening dimensions, the window must be turned to the required opening size. To keep this gap, the window needs to be fixed by means of a spacer.



Installation drawing turn window. A = min. opening according to table, B = cable



Installation drawing tilt window. A = minimum opening according to table, B = cable

Window areas in m<sup>2</sup>

in m <sup>2</sup>	0,2	0,3	0,4	0,5	0,6	0,7	0,8	0,9	1	1,1	1,2	1,3	1,4	1,5
in cm <sup>2</sup>	2000	3000	4000	5000	6000	7000	8000	9000	10000	11000	12000	13000	14000	15000
Gap opening dimension in cm	Max. admissible exhaust air performance in m <sup>3</sup> / h													
5	199	252	297	337	373	406	437	466	493	519	544	568	591	613
6	246	311	365	413	456	495	532	567	600	631	661	690	717	744
7	294	369	432	488	538	585	628	668	707	743	778	811	843	874
8	342	427	500	563	621	674	723	770	813	855	895	933	970	1005
9	389	486	567	639	704	763	819	871	920	967	1012	1055	1096	1136
10	437	544	635	714	786	852	914	972	1027	1079	1128	1176	1222	1266
11	485	603	702	790	869	942	1009	1073	1133	1191	1245	1298	1346	1397
12	532	661	770	865	951	1031	1105	1174	1240	1302	1362	1419	1475	1528

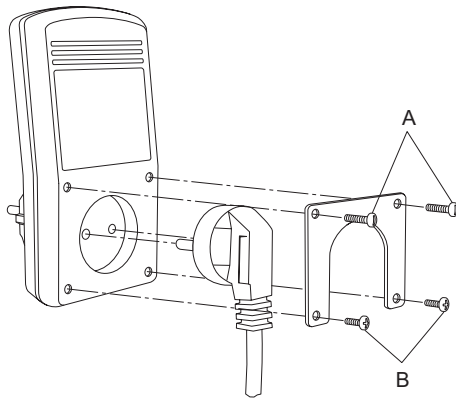


## Assembly of safety bar / replugging protection for SR.ST.DIBT

The safety bar is intended to avoid accidental replugging of the exhaust air device into an unsecured power source. Being legally mandatory, it is an important safety element. Before connecting the switch relay to the socket, please make sure to put the plug of your exhaust air device (extractor hood) into the switch relay and to secure it by means of the replugging protection. Position the safety bar over the inserted plug and fix it with the attached four screws - two metal screws for the outer corners and two plastic screws for the inner corners. Take care that the screws are fully tightened.



Important! The switch relay only works with fixed security bar. Be careful!!! In order to prevent the thread from being damaged, don't apply too much force when tightening the screws.



A = plastic screw  
B = metal screw



It is absolutely necessary to follow the safety instructions.

### Connection of other consumer loads for SR.ST.DIBT (connector version)

Mount the magnet switch and magnet as is described in the chapter "Mounting instructions".

- Before start-up please check whether the voltage indicated on the type plate is identical with the mains voltage.
- Put the connector part of the switch relay together with the ventilation device's plug already inserted and secured with the replugging protection into a properly-installed shockproof socket.
- Switch on your consumer in case it has a switch, open the window or door where the magnet switch is installed.
- The consumer must switch on after the window or door was opened. The green LED display on the front side of the switch relay must be illuminated.
- Close the window or door.
- The consumer must shut down (green LED display goes out).

### Function test SR.ST.DIBT (connector version)

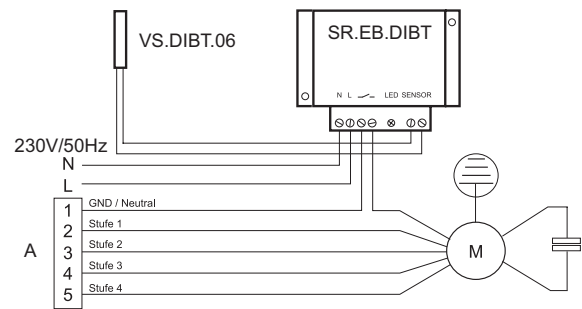
Connection of an exhaust air device

- Mount the magnet switch set as described in the chapter "Mounting Instructions".
- Before start-up please check whether the voltage indicated on the type plate is identical with the mains voltage.
- Put the connector part of the switch relay together with the ventilation device's plug already inserted and secured with the replugging protection into a properly-installed shockproof socket.
- Switch on your ventilation device, open the window or door where the magnet switch set is installed.
- The exhaust air device must start after the window or door was opened. The LED display on the face of the switch relay must light up green.
- Close the window or door.
- The ventilation device must shut down (green LED display goes out).

### Connection of the exhaust air device (ventilator motor of extractor hood) in case of SR.EB.DIBT

Install the magnet switch set as described in the chapter "Mounting the magnet switch set"

- Before start-up please check whether the voltage indicated on the type plate is identical with the mains voltage.
- Connect the sensor cable, the power supply and the ventilator motor to the terminals, as shown in the figure.
- Switch on your ventilation device, open the window or door where the magnet switch set is installed.
- The exhaust air device must start after the window or door was opened. The LED display on the face of the switch relay must light up green.
- Close the window or door.
- The ventilation device must shut down (green LED display goes out).



Wiring diagram 2 (installed version)  
A = Control module extractor hood

### Operation of the exhaust device

- Open the window or the door before switching on your exhaust air device. The green LED on the face of the switch relay is illuminated.
- Switch on your exhaust air device in the requested performance level.
- After use switch off your exhaust air device.
- If necessary, please close the window or door.
- In case you forgot to open the window before switching on your exhaust air device, the switch relay prevents its operation and thus an underpressure in the room.
- Slight heating of the switch relay is quite normal during operation.

### Maintenance and care

Please read the security notes before starting to clean the switch relay. Separate the switch relay from the network beforehand. The switch relay should only be cleaned with a slightly damp cloth or brush. By no means use aggressive detergents or chemical substances which might damage the switch relay.

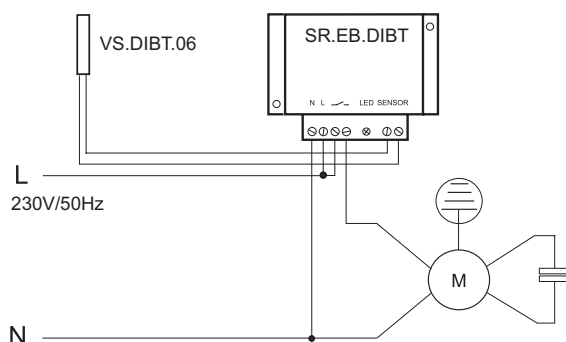
### Proper disposal

In case a switch relay is no longer functioning properly and impossible to repair, please observe the general legal instructions when disposing of them.

### Installation of the switch relay SR.EB.DIBT (installed version)

Mount the magnet switch and magnet as is described in the chapter "Mounting instructions".

- Before start-up please check whether the voltage indicated on the type plate is identical with the mains voltage.
- Put the connector part of the switch relay together with the ventilation device's plug already inserted and secured with the replugging protection into a properly-installed shockproof socket.
- Switch on your consumer in case it has a switch, open the window or door where the magnet switch is installed.
- The consumer must switch on after the window or door was opened. The green LED display on the front side of the switch relay must be illuminated.
- Close the window or door.
- The consumer must shut down (green LED display goes out).



Wiring diagram 1 (installed version)

## Installation instructions locking sensor VS.DIBT.06

These mounting instructions specify the installation and the electrical connection of the Winkhaus locking sensor activPilot Control VS.DIBT.06. Any person involved in mounting fittings must have read and understood this fitting guide. Particularly the following section "Safety Instructions" must be observed. After installation of the locking sensors these mounting instructions should be kept at the window for the electrician to find it or it should be submitted directly to the electrician.

### Safety instructions / Installation conditions

In order to guarantee the proper function of locking sensors, mounting must be carried out in accordance with the manufacturer's instructions. Installation may only be performed by skilled and safety-conscious staff.



Note 1: The locking sensor must not be used in steel windows, because magnetic interference fields might affect its function. Please make sure to use only the supplied fixing screws. Note 2: All locking sensors and contactors are sensitive to impact. Please absolutely avoid vibrations and shocks. After receipt please check all components for transport damages.

### Scope of supply

Each package contains only one kind of locking sensor, fixing screws and the adapters FT1, FT4 and FT5. Intended use: sash-side contactor used with keep VS.DIBT.06 has DIBt approval only in combination with the switch relay SR.ST.DIBt/ SR.EB.DIBt.

### Installation position

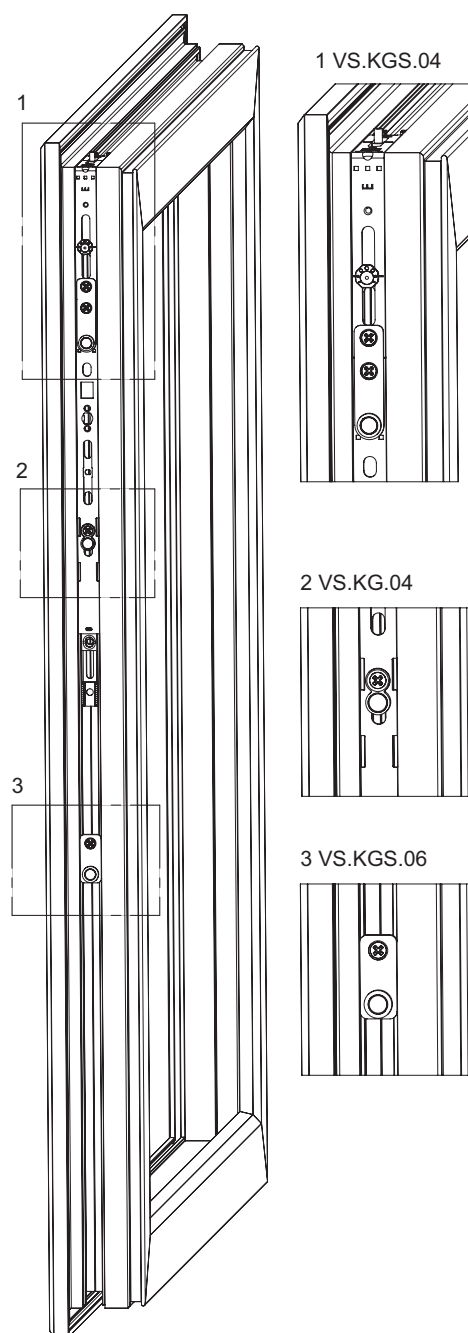
Firmly mounted (rigid) sash-side contactors in combination with keep VS.DIBT.06. Opening surveillance for turn-tilt windows is performed on the hinge side.

### Opening surveillance (magnetic contacts) state enquiry

The fixed sash-side contactors VS.KG... and VS.KGS... are only used to make a state enquiry (to check whether the sash is in the frame). To this effect the keep VS.DIBT.06 can be used. The contact is actuated as soon as the window sash is moved into the turn or tilt position.



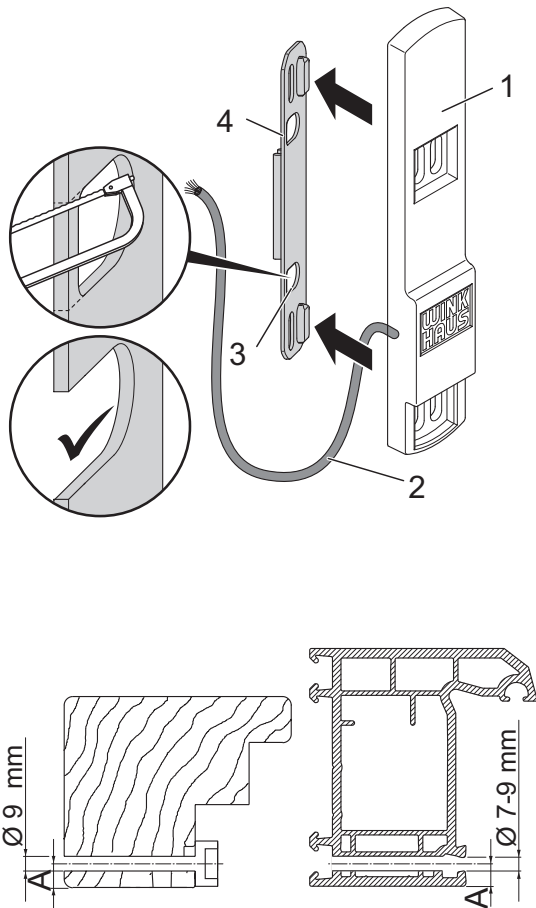
Note 1: The locking sensor is suitable for groove centre positions of 9 to 13 mm and airgaps of 10 to 15 mm. Note 2! The function test should be performed by the manufacturer after mounting and a second time at the installation site before the window is foam-insulated and installed. Note 3: If no continuity can be ascertained on a closed and locked window, please check the entry depth of the magnet transmitter into the locking sensor. One possibility to determine the depth is to press modelling material into the locking sensor.



Mounting example for rigid contactor VS.KG...



Be careful: When mounting the locking sensor, please make sure the cable isn't damaged! Important: Loop the cable in order to enable a later adjustment of the locking sensor!



Cross section timber and PVC-U profile incl. drill position  
Dimension: A = 6 mm

#### Components

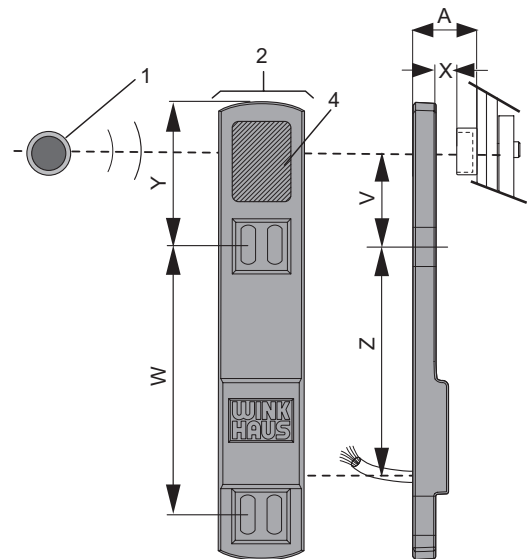
- 1 Contactor
- 2 Locking sensor
- Dimensions (for 9 to 13 mm groove position):
- A: airgap
- V: 18 mm
- W: 61.5 mm
- X: 0 to max. 5 mm
- Y: 34 mm
- Z: 49 mm (cable drilling position Ø 8 mm)

#### Installation of the locking sensor on the frame

Drill clearance hole Ø 8 mm for the cable (2). If necessary, pre-drill the fixing points. If required, fix the adapter to the locking sensor (1). Lead the cable through the Ø 8 mm hole. Fix the locking sensor with screws. Loop the cable (2) at the exit of the Ø 8 mm drilling and lay the cable along the frame.



Note: The overview of suitable adapters for the individual frame profiles is illustrated in chapter 10.1. When using an adapter, please remove the ridge (3) in order to allow for the cable to be easily laid. Click the adapter (4) onto the locking sensor (1). Note: For airgaps exceeding 16.5 – 20.5 mm please use a profile-independent adapter FT.RFID.N.4 for the locking sensor.



Attention! Using a bulb continuity tester might damage the locking sensor. We recommend you to use standard digital multimeters incl. a continuity tester or our VS.TG test device. The function test should be performed by the manufacturer after mounting and a second time at the installation site before the window is foam-insulated and installed. Important: Loop the cable in order to enable a later adjustment of the locking sensor!

## 10.7 Installation for windows with parallel action – activPilot Comfort



activPilot Comfort PADK – Manual tilting, parallel action and turning



activPilot Comfort PADM – Motorised parallel opening with manual turning



activPilot Comfort PAD – Manual turning and parallel action (handle position also possible for bottom horizontal side)



activPilot Comfort PADS – Manual turning and parallel action of special window types

### General

A window including parallel action provides a special challenge for the installation of locking sensors, because the window is considered locked not only in the locked state, but also in the parallel action position.



Please note: For an exhaust air control to DIBt requirements, the parallel position is not sufficient. The sash must be at least in the tilt position in order to ensure the necessary air flow for the exhaust air system.

### Opening surveillance

In the exclusive opening surveillance the window can be considered a standard turn-tilt window. In this mode the window is indicated as closed in the closed state as well as in the parallel position.



Remark: Please use the mounting positions from the tables in chapter 4.2 "Overview application cases".

### Opening and locking surveillance

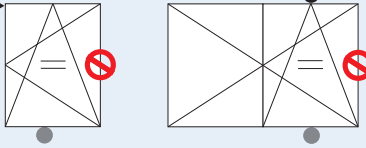
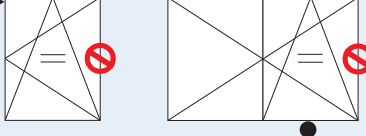
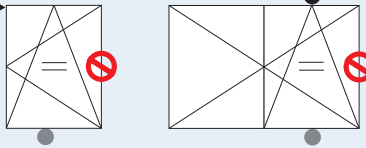
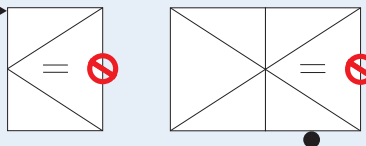
For opening and locking surveillance there are two different variants to control a window with locking sensors. The first variant provides VdS approval for a window with alarm system in the locked state and in the parallel position. To this effect two locking sensors are necessary (2x VS.A/C.RFID.06 or 2x VS.B...). The second variant enables surveillance of a window by means of only one locking sensor (VS.BK.06). However, in this case only the locked state is VdS approved. The parallel position is controlled, but it does not meet the VdS requirements.



Note: The installation positions are illustrated in the following tables. For the arrangement of positions on the window please see the picture in chapter 4.1 Selection of Locking Sensors.

### Installation position

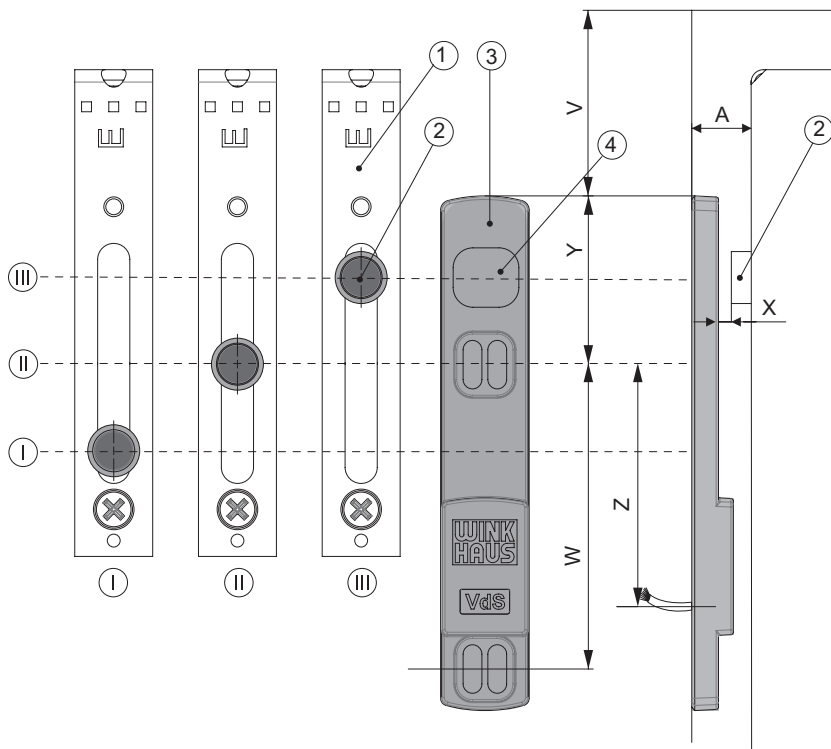
In the first variant the first locking sensor is responsible for monitoring the locked state of the window and the second one controls the parallel position. The different assembly positions of locking sensors in relation to the contactors are shown in the following installation drawings. For the second variant the VS.BK.06 locking sensor must be positioned towards the contactors, as illustrated in the installation drawings. The admissible positions to install the locking sensors on the window frame can be gathered from the following overview.

Application	Window type	Locking sensor	Installation cases
1 2 4 6	PADK PAD PADS	<b>Variant I</b>  2x VS.A/C.RFID.06  or  2x VS.B...	 <p> <b>▲ Corner drive</b>  <b>● Interlocking rod</b>            Mounting position for surveilling the locked position of the window  <b>Interlocking rod</b>            Mounting position for surveilling the parallel position of the window         </p>
		<b>Variant II</b>  VS.BK.06	 <p> <b>▲ Corner drive</b>  <b>● Interlocking rod</b>            Mounting position for surveilling the locked and parallel positions of the window         </p>
	PAD PADS	<b>Variant I</b>  2x VS.A/C.RFID.06  or  2x VS.B...	 <p> <b>▲ Corner drive</b>  <b>● Interlocking rod</b>            Mounting position for surveilling the locked position of the window   <b>● Interlocking rod</b>            Mounting position for surveilling the parallel position of the window         </p>
		<b>Variant II</b>  VS.BK.06	Not possible
		<b>Variant II</b>  VS.B...	 <p> <b>▲ Corner drive</b>  <b>● Interlocking rod</b>            Mounting position for surveilling the locked position of the window         </p>

185\_10.7\_13\_EN

## Variant I (PADK, PAD, PADS)

Mounting position of the first VS/C.RFID.06 or VS.B... locking sensor for the surveillance of the window's locking position.



- Position of contactor

I Parallel action

II Turn / tilt

III Lock

- Components

1 Interlocking rod / corner drive

2 Contactor

3 Locking sensor

4 Receiver unit

- Dimensions

A airgap

V 36 mm

W 61.5 mm

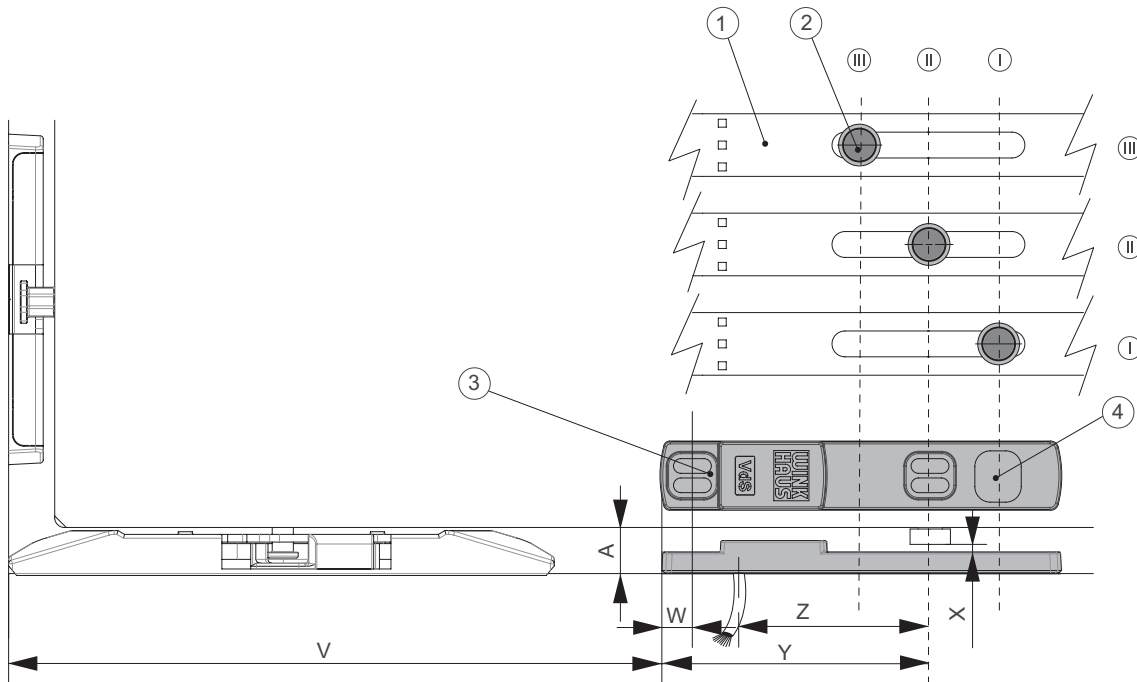
X 0 to max. 5 mm

Y 34 mm

Z 49 mm

### Variant I (PADK, PAD, PADS)

Installation position of the second VS/C.RFID.06 or VS.B... locking sensor for monitoring the parallel action position of the window



- Positions of the contactor

I Parallel action

II Turn / tilt

III Lock

- Components

1 MK.VS.250.KG

2 Contactor

3 Locking sensor

4 Receiver unit

- Dimensions

A airgap

V 170 mm

W 8.5 mm

X 0 to max. 5 mm

Y 70 mm

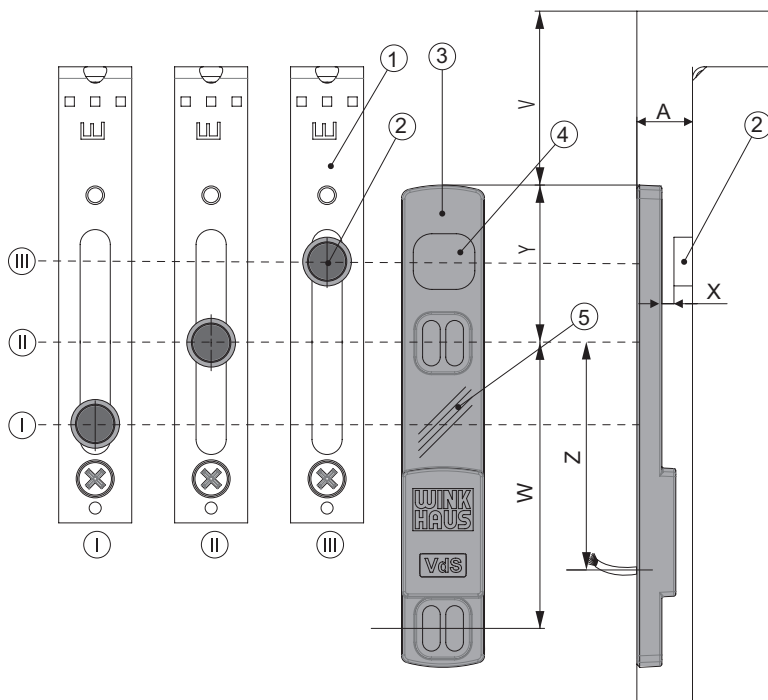
Z 49 mm

10.7



### Variant II (PADK, PAD, PADS)

Mounting position of VS.BK.06 locking sensor for monitoring the locked and parallel position of the window



- Position of contactor

I Parallel action

II Turn / tilt

III Lock

- Components

1 Interlocking rod / corner drive

2 Contactor

3 Locking sensor

4 Receiver unit

5 Tilt sensor for VS.BK.06

- Dimensions

A airgap

V 36 mm

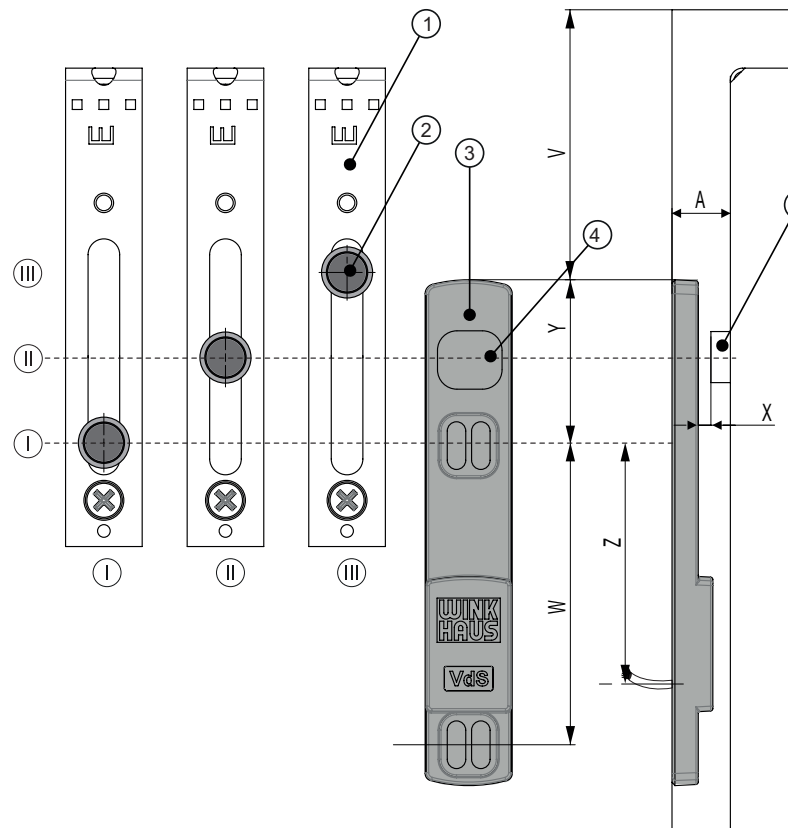
W 61.5 mm

X 0 to max. 5 mm

Z 49 mm

## PADM

Mounting position of the VS.B.06 locking sensor for controlling the locking position and the parallel position of the window



- Position of contactor

I Turn

II Parallel action

III Lock

- Components

1 Interlocking rod / corner drive

2 Contactor

3 Locking sensor

4 Receiver unit

- Dimensions

A airgap

V 55 mm

W 61.5 mm

X 0 to max. 5 mm

Y 34 mm

Z 49 mm

## Functional test

The VS.TG test device is suitable for testing Winkhaus locking sensors VS-AC/C-RFID, VS.B... and older versions of locking sensors, such as VS-A/B etc.

1. Quadruple connector panel for connecting the four white connection lines of the locking sensors VS-AC/C-RFID und VS.B...
  2. Triple connector panel for connecting the connection lines (blue, black, brown) of the climate keeps VS.K.06 and VS.BK.06.
  3. Triple connector panel, offset, for connecting the voltage supply ( $\pm 9\text{ V}$ ) and the arming (+9V) of the RFID locking sensor VS-A/C-RFID.
  4. On/off switch
  5. Magnetic contactor
  6. RFID Contactor
- By squeezing the open strand of the locking sensors, it can be inserted into the quick-release banana plug.



Remark: For test purposes the contactors 5 and 6 can also be used in place of the existing contacts. Important: If you use the RFID contactor (6) for the test, disconnect the locking sensor from the voltage afterwards.

### Testing procedure opening and locking surveillance:

For testing the opening and locking surveillance the four white strands must be connected to the test device (block of four, 1). Then switch on the device. In case of VS-A/C-RFID sensors please additionally make sure that the voltage (3) is applied in line with the colours of wires. After the strands have been connected, the sabotage line is detected automatically and indicated by the lit LEDs. The order and arrangement of strands is selectable at will. When the signal line is closed (this means when the window is locked) the two remaining LEDs light up.



Please note: For the function test of the VS.A/C. RFID locking sensor the battery of the test device must be fully charged.



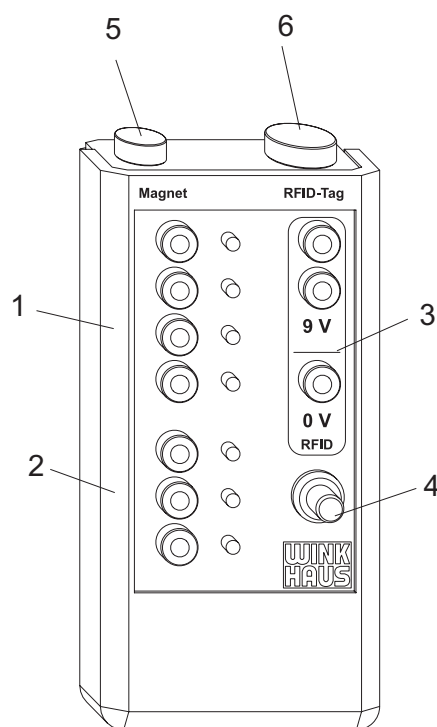
Note: The four white strands can be applied in any desired order.

### Testing procedure climate keep:

For the climate keeps test (changeover contact) the three coloured strands (black, brown, blue) must be connected to the test device (block of three, see 2). After applying the strands the "normally open side" is detected and indicated by the lit LEDs. When the magnetic transmitter is connected to the keep the LEDs change over to the "normally closed side".



Note: The coloured strands can be applied in any desired order.

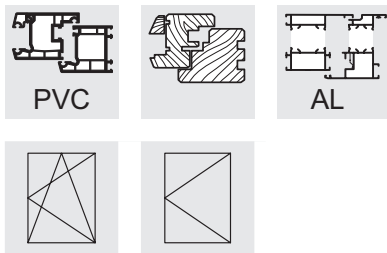


### Testing the exhaust air control system

For testing the DIBt locking sensor (break contact) the two white strands must be connected to two of the four connectors (block of four, 1) of the test device. After applying the strands, the open state is detected automatically and the LEDs are lit. As soon as the magnetic contactor is placed on the locking sensor, the line is closed and the LEDs go out.



Note: The two white strands can be applied in any desired order.

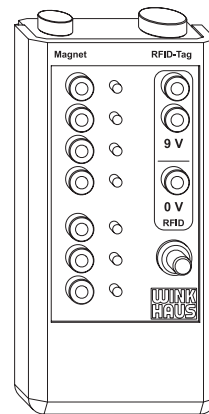


## Test device VS.TG

- Suitable for testing Winkhaus locking sensors:
- VS-A/C-RFID.06
- {VS.B.06}
- {VS.B.25}
- {VS.BK.06}
- Locking sensor VS.K.06
- {VS.DIBT.06}
- and older models of locking sensors (e. g. VS-AB 06)

### Technical data

- Voltage supply: 9V block battery
- Connection: 4 mm quick-release banana plugs (or 4 mm measuring line with test probes)
- Dimensions: 12 x 70 x 22 mm
- Scope of delivery: VS.TG test device, 9 V block battery, 7 pieces of quick-release banana plug



Item description	Item No.
{VS.TG}	4980699

## Function test of magnetic locking sensor with digital multimeter

- Connect two diagonally opposing strands to the test device.



Please note: Using a bulb continuity tester might damage the locking sensor. We recommend you to use standard digital multimeters incl. a continuity tester or our VS.TG test device.

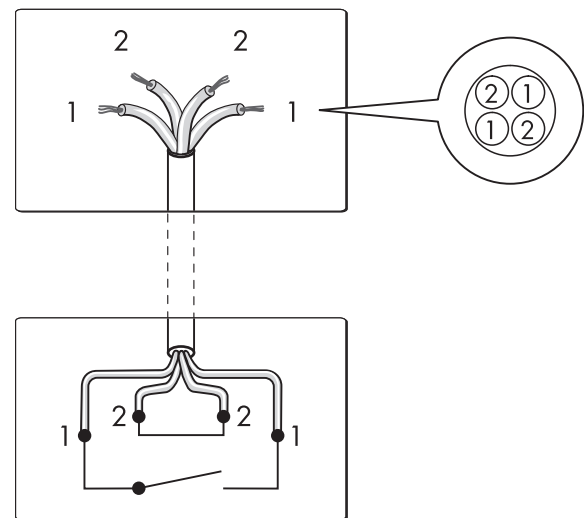
- Unlock and open the window.
- If continuity is indicated, the two strands no. 2 are connected (sabotage line).
- If no continuity is indicated, the two strands no. 1 are connected (signal line).
- Connect the strands no. 1 to the test device and close and lock the window.
- If the fitting magnet is mounted in the correct way, the test device shows continuity.



Note 1: If no continuity can be ascertained on a closed and locked window, please check the entry depth of the magnet transmitter into the locking sensor. One possibility to determine the depth is to press modelling material into the locking sensor. Note 2: Important! The function test should be performed by the manufacturer after mounting and a second time before the window is foam-insulated and installed at the installation site.



Important: Loop the cable in order to enable a later adjustment of the locking sensor!



Wiring diagram magnetic locking sensors

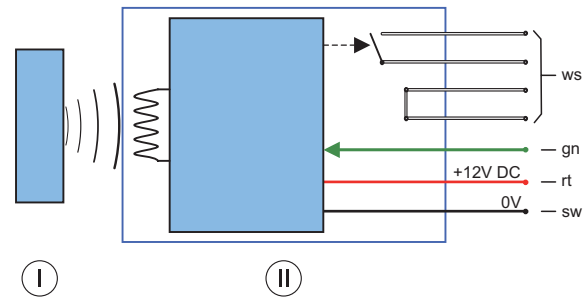
# Function test of RFID locking sensors with a digital multimeter

## Identify and control signal contact

- Close the window, still the locking sensor is without voltage (no operating voltage).
- Identify the sabotage line from the 4 white lines by measuring (no continuity).
- The remaining 2 white lines (open) are the signal lines.
- Apply operating voltage.
- The signal contact must close now.
- Arm the system (12V DC at signal input "scharf schalten (arming)").
- Open the window.
- Cancel the arming.
- Alarm status LED must flash now.



Important! If no continuity can be ascertained on a closed and locked window, please check the entry depth of the RFID transmitter into the locking sensor. One possibility to determine the depth is to press modelling material into the locking sensor.



Wiring diagram RFID locking sensors

I : Contactor (transponder)

II: Locking sensor (receiver unit)

Wiring assignment

ws = white - signal contact + sabotage loop

gn = green - activation (+12V DC)

rt = red - supply voltage (+12V DC)

sw = black - earth (0V)

## Identification of the sabotaged window

In the activated state a triggered alarm is stored by the locking sensor and it is indicated via LED after deactivation of the locking sensor.

Example: The window is locked, the locking sensor's arming is activated. If, in this state, the window is opened for a short time (sabotaged), the alarm memory is set. After disarming the locking sensor, the alarm status LED is flashing. Thus the sabotaged window can be identified afterwards.



Important! The function test should be performed by the manufacturer after mounting and a second time at the installation site before the window is foam-insulated and installed.

# Approval protocol

We recommend you to establish an approval protocol for the installed locking sensors. In this way it is easier to satisfy all requirements for certificates and later work on the system can be performed more conveniently.



You can find an example of an approval protocol on the next page.



## Establishment of a detailed system plan:

- How many and which windows / doors are integrated into the system?
- Which window fittings can be found in the windows / doors?
- Which locking sensors were installed?
- Which contactors were mounted?
- Which accessories were used (e. g. switch relay SR...DIBt, ...)

## Enabling correct installation:

- Was the cable looped on the window frame?
- Was the cable laid in an empty conduit?
- Did you protect the cable against being squeezed?
- Was the contactor correctly positioned on the window or door, as required by the application in question?
- Was the locking sensor properly positioned in line with the position of the contactor?
- Was the locking sensor for a combined opening and locking surveillance positioned in a way to enable the contact to be opened as soon as the locking bolt has exited the frame part by more than 50 %?
- Was the correct connection voltage applied?
- Was the system checked for proper function by a specialised person?

## Obtaining certificates:

- Who is responsible for approval of the system (installer of the alarm system, chimney sweep...)?
- Have you got certificates of all the components? (Certificates are available for download on the Winkhaus homepage.)
- Are the components system free or is a special approval required by VdS?
- Have you used exclusively original components which were approved by the manufacturer?

Position of the unit	Place of installation	Size of window or door	Locking sensor	Contactor	Correct mount. position	Functional test	Remarks
			<input type="checkbox"/> existing Type:	<input type="checkbox"/> existing Type:	<input type="checkbox"/> o.k. <input type="checkbox"/> not o.k.	<input type="checkbox"/> o.k. <input type="checkbox"/> not o.k.	
			<input type="checkbox"/> existing Type:	<input type="checkbox"/> existing Type:	<input type="checkbox"/> o.k. <input type="checkbox"/> not o.k.	<input type="checkbox"/> o.k. <input type="checkbox"/> not o.k.	
			<input type="checkbox"/> existing Type:	<input type="checkbox"/> existing Type:	<input type="checkbox"/> o.k. <input type="checkbox"/> not o.k.	<input type="checkbox"/> o.k. <input type="checkbox"/> not o.k.	
			<input type="checkbox"/> existing Type:	<input type="checkbox"/> existing Type:	<input type="checkbox"/> o.k. <input type="checkbox"/> not o.k.	<input type="checkbox"/> o.k. <input type="checkbox"/> not o.k.	
			<input type="checkbox"/> existing Type:	<input type="checkbox"/> existing Type:	<input type="checkbox"/> o.k. <input type="checkbox"/> not o.k.	<input type="checkbox"/> o.k. <input type="checkbox"/> not o.k.	
			<input type="checkbox"/> existing Type:	<input type="checkbox"/> existing Type:	<input type="checkbox"/> o.k. <input type="checkbox"/> not o.k.	<input type="checkbox"/> o.k. <input type="checkbox"/> not o.k.	
			<input type="checkbox"/> existing Type:	<input type="checkbox"/> existing Type:	<input type="checkbox"/> o.k. <input type="checkbox"/> not o.k.	<input type="checkbox"/> o.k. <input type="checkbox"/> not o.k.	
			<input type="checkbox"/> existing Type:	<input type="checkbox"/> existing Type:	<input type="checkbox"/> o.k. <input type="checkbox"/> not o.k.	<input type="checkbox"/> o.k. <input type="checkbox"/> not o.k.	
			<input type="checkbox"/> existing Type:	<input type="checkbox"/> existing Type:	<input type="checkbox"/> o.k. <input type="checkbox"/> not o.k.	<input type="checkbox"/> o.k. <input type="checkbox"/> not o.k.	
			<input type="checkbox"/> existing Type:	<input type="checkbox"/> existing Type:	<input type="checkbox"/> o.k. <input type="checkbox"/> not o.k.	<input type="checkbox"/> o.k. <input type="checkbox"/> not o.k.	
			<input type="checkbox"/> existing Type:	<input type="checkbox"/> existing Type:	<input type="checkbox"/> o.k. <input type="checkbox"/> not o.k.	<input type="checkbox"/> o.k. <input type="checkbox"/> not o.k.	
			<input type="checkbox"/> existing Type:	<input type="checkbox"/> existing Type:	<input type="checkbox"/> o.k. <input type="checkbox"/> not o.k.	<input type="checkbox"/> o.k. <input type="checkbox"/> not o.k.	
			<input type="checkbox"/> existing Type:	<input type="checkbox"/> existing Type:	<input type="checkbox"/> o.k. <input type="checkbox"/> not o.k.	<input type="checkbox"/> o.k. <input type="checkbox"/> not o.k.	
			<input type="checkbox"/> existing Type:	<input type="checkbox"/> existing Type:	<input type="checkbox"/> o.k. <input type="checkbox"/> not o.k.	<input type="checkbox"/> o.k. <input type="checkbox"/> not o.k.	

**System:**Certificate ☐Instructions ☐Catalogue ☐**Filter:**

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Signature: \_\_\_\_\_

**End customer:**

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Signature: \_\_\_\_\_



## Notes

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