

KGG VISION1

Operation and Maintenance Instructions



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Appendix:

EC Declaration of Conformity - Hold-open system

EC Declaration of Conformity - Power supply

EC Declaration of Conformity - CAN bus control unit

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1 Preface

Dear customer,
these operating instructions will introduce you to the

- > Safety notes
- > Function, operation and device description
- > Assembly
- > Use
- > Maintenance and inspection
of the system.

The hold open device „HPS-Supervision“ (=subject of of the approval Z-6.500-2575 and Z-6.510-2567) is sold by KGG Brandschutzsysteme GmbH under the product name KGG VISION1.

This document is intended for end customers and installers of fire alarm systems. Such people are primarily technicians who possess special knowledge in the field of fire alarm technology.

The manufacturer accepts no liability for damage caused by incorrect operation or connection, non-compliance with the operating instructions or lack of maintenance or care.

This document is subject to technical amendments without prior announcement and makes no claims regarding completeness.

All rights reserved.

Storage:

These operating instructions contain important information for the safe and proper use of the system. Always keep the operating instructions handy for reference.

2 Guidelines and standards

The control system is based on the guideline:

„Allgemeine Anforderungen und Prüfgrundlagen für das Zulassungsverfahren für Feststellanlagen“

[General requirements and test bases for the approval process of hold-open systems]

Deutsches Institut für Bautechnik, Berlin

The control system was tested in accordance with the standards and guidelines listed below.

- > DIBt 07/2014 Allgemeine Anforderungen und Prüfgrundlagen für das Zulassungsverfahren für Feststellanlagen
[general requirements and test bases for the approval process of hold-open systems]
- > DIN EN 54-2 Fire alarm systems; Part 2 Central fire alarm systems
- > DIN EN 54-4 Fire alarm systems; Part 4 Power supply equipment
- > DIN EN 54-5 Fire alarm systems; Part 5 Heat detectors - point detectors
- > DIN EN 54-7 Fire alarm systems; Part 7 Optical smoke detectors - point detectors
- > DIN EN 54-20 Fire alarm systems; Part 20 Smoke aspiration detectors
- > DIN EN 54-25 Fire alarm systems – Part 25: Component parts using high-frequency connections
- > DIN EN 1154 Locks and building hardware - Door-closing mechanism with controlled closing process - Requirements and test methods
- > DIN EN 1155 Locks and building hardware - Electrically operated hold-open devices for swing doors - Requirements and test methods
- > DIN EN 1158 Locks and building hardware - Door coordinators - Requirements and test methods
- > DIN 18263-4 Locks and building hardware - Door closers with hydraulic damping, part 4: Door closers with automatic door-opening function
- > DIN EN 60529 Protection classes through housing (IP code)
- > DIN EN 60721-3-3 Classification of environmental conditions - Part 3: Classes of environmental impact parameters and their limit values; main section 3: Use in a fixed location; weather-proof
- > DIN EN 60950-1 IT equipment - Safety - Part 1: General requirements
- > DIN EN 60335-1 Safety of household and similar electrical appliances - Part 1: General requirements
- > DIN EN 61000-6-2 Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity for industrial environments
- > DIN EN 61000-6-3 Electromagnetic compatibility (EMC) - Part 6-3: Generic standards - Emission standard for residential, commercial and light-industrial environments
- > DIN EN 61000-3-2 Electromagnetic compatibility (EMC) - Part 3-2: Limits for harmonic current emissions (device input currents ≤ 16 A per cable)
- > DIN EN 61000-3-3 Electromagnetic compatibility (EMC) - Part 3-3: Limits – limitation of voltage changes, voltage fluctuations and flickers in low-voltage public supply systems for devices and equipment with a rated current ≤ 16 A per cable, not subject to a special connection
- > DIN EN 1634-1 Fire resistance and smoke control tests for door and shutter assemblies, openable windows and elements of building hardware - Part 1: Fire resistance test for door and shutter assemblies and openable windows
- > DIN EN 60079-14 Explosive atmospheres - Part 14: Electrical installations design, selection and erection
- > DIN EN 12978 Doors and gates - Safety devices for power-operated doors and gates - Requirements and test methods

3 Generally applicable information and safety notes

Please pay attention to the information and safety notes provided below..

3.1 Symbols and safety notes



An imminent danger to the life and health of persons. By ignoring these instructions you may endanger the life and limb of the user, and cause serious detriment to health leading to potentially fatal injuries to the user.



Gives important instructions on the proper use of the control system. If these instructions are not observed, it may cause the gate to malfunction or become defective.



Indicates the exclusion of the manufacturer's liability in case of mistakes or neglect by the operator or user.

3.2 Safety notes



The safety notes in these operating instructions must be followed at all times!

3.3 Permitted users



The qualified electricians must identify potential danger sources and take suitable safety measures.

3.4 Professional handling

To maintain safe working order and to ensure safe operation, the user is obliged to observe the points stated in these operating instructions.



Use only original spare parts or approved accessories. All components connected to the system must obtain approval / comply with the test report. Use of components which do not meet requirements is not permitted.

4 Basic instructions

4.1 Safety measures for assembly, commissioning and maintenance



Never override or bypass safety devices.

Block access to the work area before starting assembly, servicing and maintenance work.

Improper or non-intended use of the device can cause life-threatening injuries to the user and damage the device or other property.

4.2 Competent persons

Competent persons are those persons

- > who have knowledge in the field of power-operated windows, doors and gates thanks to their professional training and experience
- > who are familiar with relevant national health and safety regulations, directives and generally accepted engineering standards

in such way that they can assess the safe condition of the respective system.

4.3 Intended use

The control system has been designed and produced in accordance with the state of the art in technology and recognized safety regulations (see section 2).

The control system components may only be used when in perfect condition. Intended use also includes following all the instructions in these operating instructions.

4.4 Operator's obligations



In case of faults, always request assistance from a competent person!

Do not perform any unauthorized structural changes on the control system!

The controller may only be operated when in a perfectly safe condition.

Ensure that the system is operated only in a perfect condition and in accordance with the valid approval at the time of commissioning, and that it is regularly checked with respect to its functioning capability by an expert. Proof must be provided, to confirm that the necessary checks have been carried out. The operator is also responsible for ensuring that he has the operating instructions for the gate.

4.5 Obligations of the user

The operator is to be provided with written confirmation from all users that they have read and understood the safety notes and operating instructions. In case of a fault due to incorrect operation, the user takes full responsibility.

4.6 Warranty and liability

A functionally correct operation and handling as well as an error-free connection of all command, signaling and drive elements are all expected if resorting to warranty. The manufacturer guarantees that all parts are free of faults in materials and workmanship at the time of delivery.

4.7 Packaging

The components are packaged in accordance with the transport conditions to be expected. This helps with protection from transport to assembly. Packaging material is to be disposed of in accordance with statutory regulations and local provisions.

5 Assembly and installation

5.1 Safety notes for assembly



Only original replacement parts may be used. The manufacturer's liability terminates if other parts are used. Specific safety requirements and accident prevention regulations must be observed during the installation, commissioning, maintenance and inspection of the controller.

Special attention should be paid to the following:

- > That all components of the control system can be accessed and operated after the complete installation of the system, in order to enable service in the event of a fault.
- > The position of the control elements including the pushbuttons must be openly accessible at all times.
- > If the installation of the hold-open system does not permit this, then this must be enhanced with a separate manual trip switch.
- > The 230 V AC / 400 V AC and 24 V DC cables must be routed separately.
- > The connection of the on-site mains supply must only be established by an electrical specialist or persons with proof of authorization.
- > The control system is commissioned only once the installation work of all components has been completed.
- > Installation work after commissioning has been performed may only be performed when the system is in a de-energized state.
- > If changes are made to the system, then these must be noted in the circuit diagram and incorporated in the system documentation
- > The inspection of the fire detectors is to be conducted by simulating the relevant physical fire parameters.
- > The interaction between the control system and the connected external systems must be performed exclusively by a specialist from a specialist contractor and recorded.
- > Following a successfully performed function test of the entire system, all functions must be documented.

5.2 Safety notes for fault resolution / repairs

Special attention should be paid to the following:

- > If a fault occurs which could compromise personal safety, the system must be secured or, if necessary, rendered inoperative.
- > Replacement work should be only carried out on a de-energized system
- > It may only be put back into operation after the fault has been rectified professionally and the danger is eliminated.
- > It is generally not allowed to bridge and bypass safety devices or to render them inoperable.
- > Subsequent changes and modifications to the system may only be carried out by authorized service personnel, while taking into account the limits of application.

5.3 Control system assembly location



The assembly location of the control point is to be selected so that the closure is visible. The positioning of the control system should be in direct proximity in order to enable unambiguous assignment.

The control system is tested as wall housing and must be installed exclusively in this design. Modifications to the housing or installation of the individual components in an alternative housing are not permitted and lead to approval becoming invalidated

A non-oscillating and vibration-free fixing is to be chosen for control system assembly.
The control system must always be aligned vertically with the cable entry from below.

5.4 Electrical connection



The power must be fed at the location with an all-pole mains power switch secured against reactivation (e.g. a main switch).



All cables must be connected in a de-energized condition.

Cable glands that are not required must be sealed to ensure the housing is sealed against the ingress of liquids and foreign bodies.

All safety-related functions are to be checked after the control system is installed and after changing parameters.

6 Single gate control system



General technical data:

Type identification:	KGG VISION1 (HPS-SUPERVISION)
Housing:	ABS
Dimensions (W x H x D):	240 x 160 x 90 mm
Weight:	1.6 kg
Protection class:	IP 54

Input voltage:	230 V AC + 10 % / - 15 %
Input current:	max. 2 A
Primary side fuse:	2 A / 250 V T

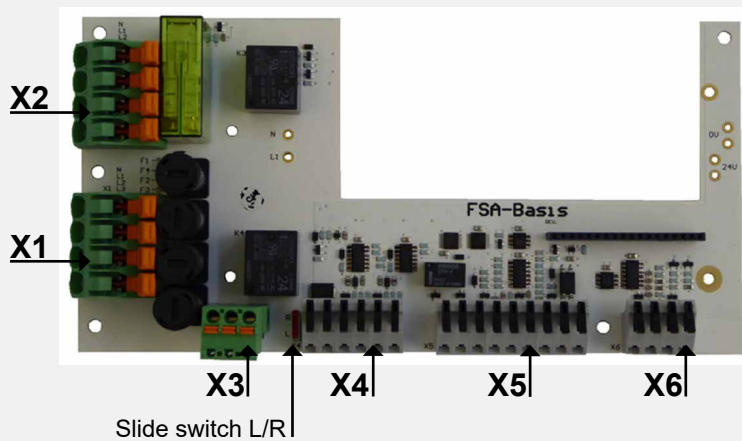
Output voltage:	24 V DC +/- 5 %
Output power:	max. 50 W (2.08 A)

Operating temperature:	+5 to +40 °C
Relative ambient humidity:	25 % to 75 %
Storage temperature:	-10 to +60 °C

The on-site fuse for the connection cable is recommended to be 10 A.

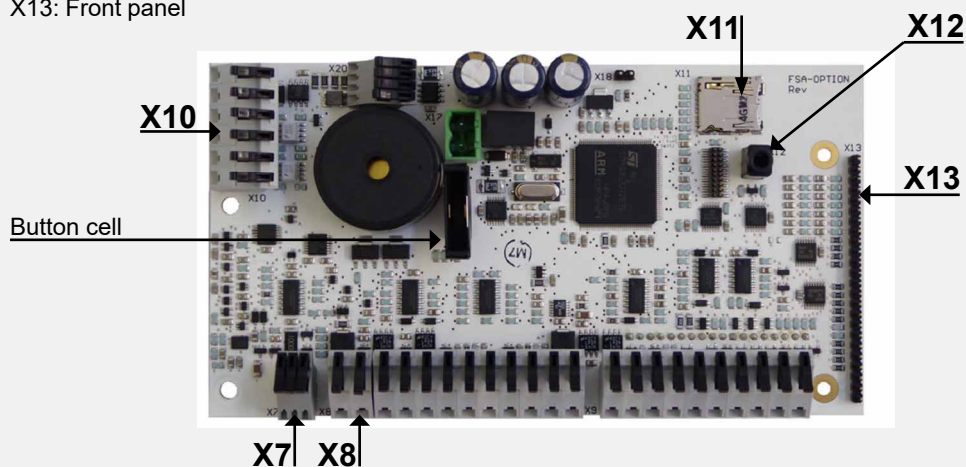
Motherboard

- X1: On-site power supply
- X2: 3~ 400V AC - door drive
- X3: 1~ 230V AC - door drive
- X4: Holding magnet 1 / Limit switch 1,2
- X5: On-site fire alarm system / external pushbutton / potentialfree signal exchange
- X6: Connection for commissioning module



Add-on board

- X7: Fire detector
- X8: Horn, flashing light
- X10: Potentialfree signal exchange from higher-level control unit
- X11: SD-card for configuration and Fehlerspeicher
- X12: PC interface
- X13: Front panel



6.1 Fuses

Door drive fuse:

Mains fuse (F1)	L1 output gate motor:	5 A / T / 5x20 mm glass fuse
Mains fuse (F2)	L2 output gate motor:	5 A / T / 5x20 mm glass fuse
Mains fuse (F3)	L3 output gate motor:	5 A / T / 5x20 mm glass fuse

Preliminary fuse of the integrated power supply unit:

Mains fuse (F4)	2 A / T / 5x20 mm glass fuse
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Only the fuses listed here may be used!

Higher-rated fuses are not permitted and may result in hardware defects in the event of a fault

6.1.1 Holding magnets

The use of holding magnets depends on the structure and function. Depending on the application it is possible to set different time parameters

6.1.2 Limit switch

With the limit switches the end positions can be detected and evaluated by the system.

6.1.3 Control point

In addition, a further control point (HPS-CALLPOINT) can be connected to the central unit. The functionality includes opening / closing, manual triggering a fire alarm and fault acknowledgement. Furthermore, status information of the closure is output through LEDs.

6.2 System components for personnel protection



Due to a lack of battery buffering, the system is not permitted for personnel protection.

You can find further information on the requirements of the DIBt in the „Allgemeine Anforderungen und Prüfgrundlagen für das Zulassungsverfahren für Feststellanlagen“ [general requirements and test bases for the approval process of hold-open systems].

The functionality of the monitoring of the closure with light barriers and contact strips in normal operation has been proven in the course of the approval process.

6.2.1 Light barrier

For the monitoring, up to two light barriers or sensors can be evaluated.



In the case of an active closing process, the evaluation of the sensors is not active.

6.2.2 Safety contact strips

In order to ensure personnel protection in normal operation (no fire alarm), two safety contact strips can monitor opening and closing.



In the case of a fire alarm, the evaluation of the contact strips is not active.

6.3 Control buttons and Status indicators



A. Manual trip switch, fire alarm

Triggers fire alarm

Any point within the red touch surface can be used to trigger the alarm.

B. Fault acknowledgement

acknowledges resolved faults / horn / fire alarm (after 2 seconds)

C. Opening

Triggers opening

D. Motor stop / acknowledge

Press < 2 seconds immediately stops the control of the drive

Press > 2 seconds resets the drive „stop“

E. Closing

Triggers closing

If closing area is occupied, pressing

> 3 seconds required

Monthly function test

F. Acknowledge horn

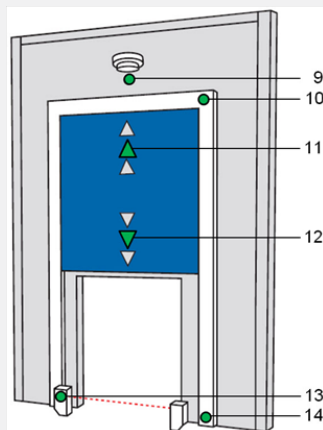
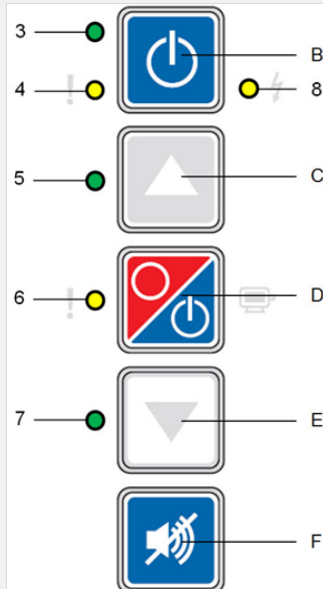
Acknowledges internal fault horn

1 Internal fire alarm

Illuminated Triggered from keypad / fire detector / pushbutton / control point

2 External fire alarm

Triggered by higher-level control system (fire alarm system)



3 Operational readiness

Illuminated	Control system ready for operation
Flashes	PC access active
Not active	Fault present

4 Collective fault

Illuminated	Fault with connected components
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5 Remote opening

Illuminated	Remote-controlled opening active
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6 Motor fault

Illuminated	Thermal protection switch
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7 Remote closing

Illuminated	Remote-controlled closing active
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8 Mains supply

Illuminated	Mains supply failure
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9 Fire detector

Illuminated	Detector evaluation OK
Not active	Detector triggered

10 Closure open

Illuminated	Open limit switch actuated
Flashes (1 Hz)	Open limit switch fault
or	
	Open and closed limit switches actuated simultaneously

11 Closure opening

Illuminated	Open triggering active
Flashes (1 Hz)	Closure brought to a halt through „motor stop“ button (D)

12 Closure closing

Illuminated	Close triggering active
Flashes (1 Hz)	Closure brought to a halt through „motor stop“ button (D)

13 Closing area monitoring

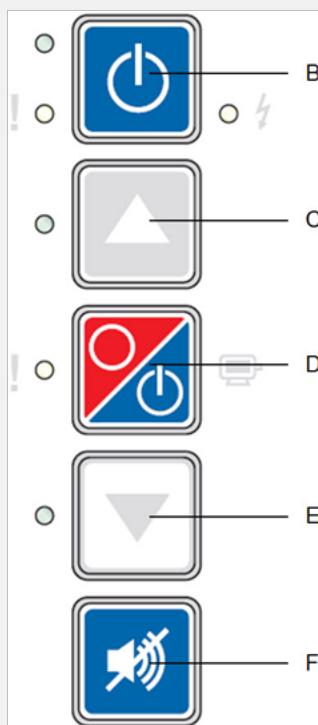
Illuminated	Closing area free
Flashes (1Hz)	Closing area fault / contact strip or light barrier defective

14 Closure closed

Illuminated	Closed limit switch actuated
Flashes (1 Hz)	Closed limit switch fault
or	
	Open and closed limit switches actuated simultaneously

6.4 Opening / closing basic function

Here you can find guidance on the opening and closing functions of the fire protection closure.



6.4.1 Opening (manual)

To open the closure, please follow the instructions below::

1. If the fire alarm is active, please briefly actuate **Button B** (the fire alarm is acknowledged after 2 seconds).

Attention: Fire alarm cannot be acknowledged when the closure is opened (limit switch open actuated).

2. Make sure that the opening area is free.

3. Briefly press **Button C**

Attention: You only have a pre-set time available (runtime monitoring) to open the closure.

4. Push the closure open until the holding magnet is reached and the closure is held by it

If the preset time is exceeded, return to step 1.

6.4.2 Opening (motorized)

If a motor is installed for opening the closure, follow steps 1–3 from the previous section. The closure then moves open to the end position automatically.



The set time (runtime monitoring) applies both to the opening and for the closing. In this regard one must remember that if no limit switch is installed for the closed position and the closure is closed, the closure cannot then be immediately reopened. The system „defines“ the closure to be in the closed position only after the runtime monitoring is complete.

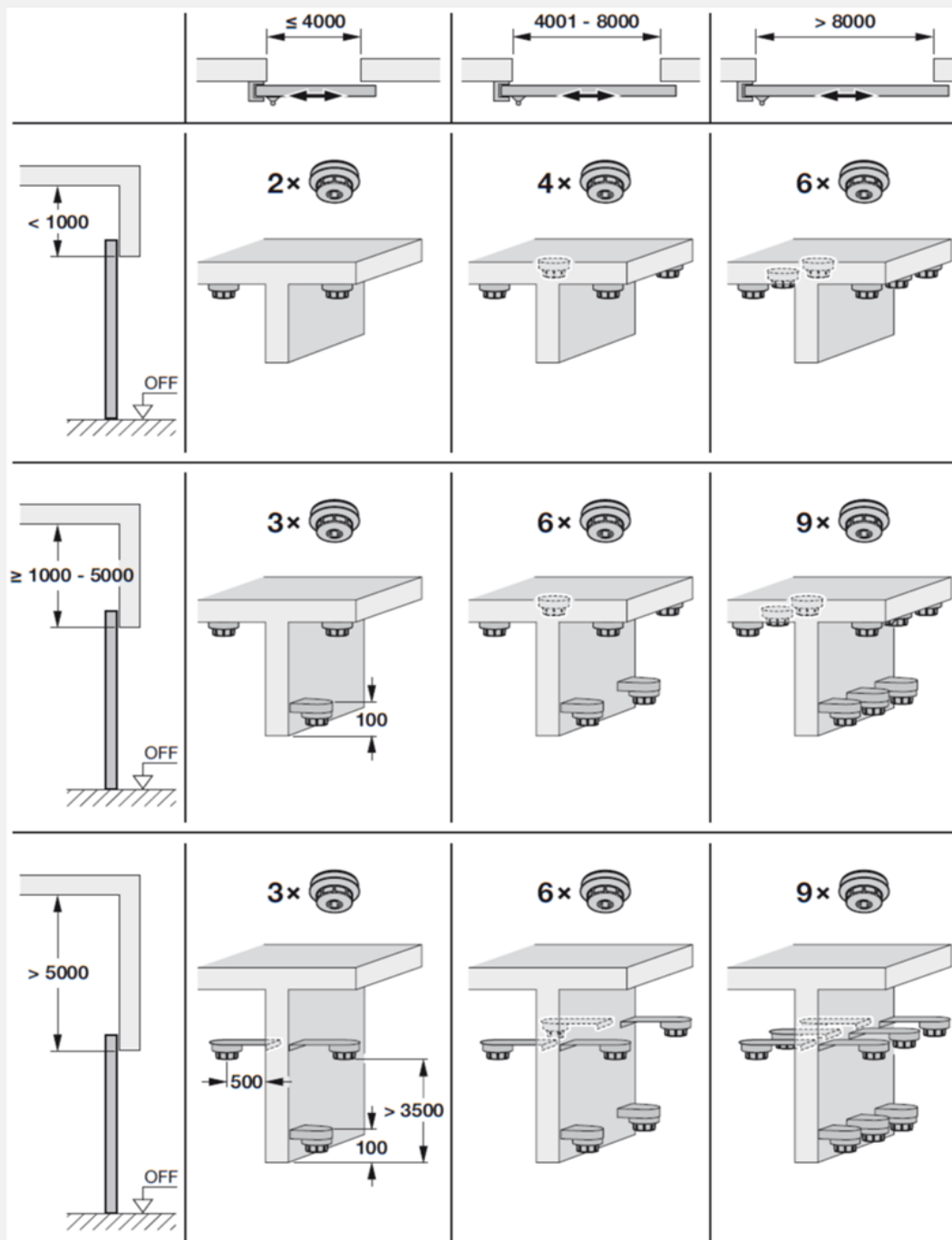
An installed limit switch for the closed position reports it instantaneously, which means the closure can be reopened immediately afterwards.

6.4.3 Closing

To close the gate, the **Button E** must be pressed.

Attention: If closing area monitoring is present, in the event of an occupied closing area the closing process is only initiated once **Button E** has been pressed for >3 seconds

6.5 Installation position of fire detectors



7 System connections

7.1 Connectors

The control system has different types of connectors:

X1 / X2

Cable cross section min.: 0.2 mm²

Cable cross section max.: 6 mm²

X3 / X17

Cable cross section min.: 0.2 mm²

Cable cross section max.: 2.5 mm²

X4 / X5 / X6 / X8 / X9 / X10

Cable cross section min.: 0.2 mm²

Cable cross section max.: 1.5 mm² (solid wire)

X7 / X20

Cable cross section min.: 0.2 mm²

Cable cross section max.: 0.5 mm² (solid wire)

7.2 Standard cables

The cable lengths listed below must be observed in the installation!

Reducing the cross section or exceeding the length specification will result in voltage losses and, therefore, fault-free function cannot be guaranteed!

Current load up to 0.25 A	0.50 mm ²	maximum cable length:	30 m
	0.75 mm ²	maximum cable length:	30 m
Current load up to 0.5 A	0.50 mm ²	maximum cable length:	30 m
Current load up to 0.75 A	0.75 mm ²	maximum cable length:	30 m
Current load up to 1.0 A	0.75 mm ²	maximum cable length:	20 m



Using each of the following cable types for its designated purpose is mandatory. The use of unshielded cables can lead to erroneous function and defective control components as a result of EMC influences.

X7: Fire detector

2 x 2 x 0.8 mm	maximum cable length:	30 m	J-Y(ST)Y ...LG - fire alarm cable	(standard)
			J-H(ST)H...BD - fire alarm cable	(non-halogen)

X8: Horn / flashing light

2 x 2 x 0.8 mm	maximum cable length:	30 m	J-Y(ST)Y ...LG - inner cable	(standard)
			J-H(ST)H...BD - inner cable	(non-halogen)

X10: potentialfree signal exchange

2 x 2 x 0.8 mm	maximum cable length:	30 m	J-Y(ST)Y ...LG - inner cable	(standard)
			J-H(ST)H...BD - inner cable	(non-halogen)

X20: CAN-BUS

2 x 2 x 0.22 mm² maximum cable length: 20 m UNITRONIC BUS CAN (standard)
UNITRONIC BUS CAN FD P (non-halogen)

8 Accessories

8.1 HPS-CALLPOINT control point

The control point is an optional extension which is connected to the central unit via CAN bus. The display and functions of the controls are identical to those of the keypad on the central unit.



HPS-CALLPOINT MOVE

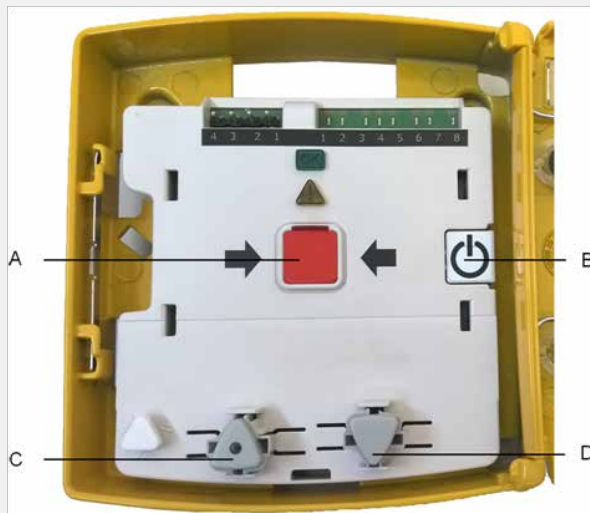


HPS-CALLPOINT SAFE

Technical data:

Type identification:	HPS-CALLPOINT MOVE or HPS-CALLPOINT SAFE
Housing:	Aluminium die casting
Dimensions (W x H x D):	129 x 138 x 39 mm
Weight:	0.4 kg
Protection class:	IP40
Color:	Orange (~ RAL 2011) / Yellow (~ RAL 1004)
Power supply:	24 V DC +/- 5 %
Operating temperature:	+5 to +40 °C
Relative ambient humidity:	25 % to 75 %
Storage temperature:	-10 to +60 °C

8.1.1 Function buttons, HPS-CALLPOINT MOVE and HPS-CALLPOINT SAFE



A. Trigger buttons

- > Triggers fire alarm

B. Fault acknowledgement

- > Acknowledges resolved faults / horn / fire alarms (after 2 seconds)

C. Opening

- > Triggers opening

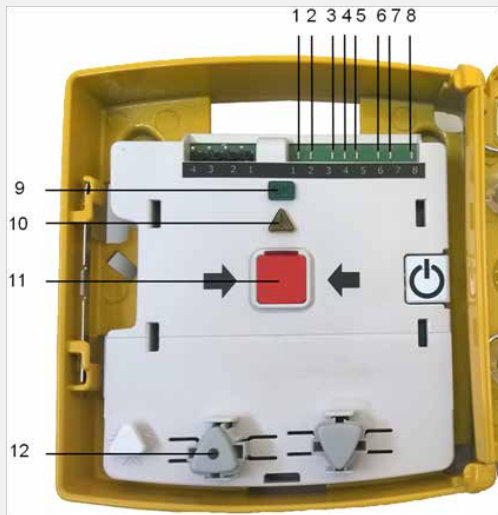
D. Closing

- > Triggers closing
- > If closing area is occupied, pressing > 3 seconds required.
- > Monthly function test

In the „SAFE“ design, there are no recesses in the housing cover, which means the Open and Close function buttons are only accessible when the housing is opened.

To activate the buttons it is needed to use the key which is provided with the system (but not a metal or sharp object!).

8.1.2 Status indicators



1. Remote opening

Illuminated Remote-controlled opening active

2. Closure opening

Illuminated Opening triggering active
Flashes (1 Hz) Closure brought to a halt through „motor stop“ button (D)

3. Remote closing

Illuminated Remote-controlled closing active

4. Closure closing

Illuminated Close triggering active
Flashes (1 Hz) Closure brought to a halt through „motor stop“ button (D)

5. Closure closed

Illuminated Closed limit switch actuated
Flashes (1 Hz) Closed limit switch fault
or
Open and closed limit switches pressed simultaneously

6. Fire detector

Illuminated Detector evaluation OK
Not active Detector triggered

7. Closing area monitoring

Illuminated Closing area free
Flashes (1 Hz) Fault closing area / contact strip

8. Motor fault

Illuminated Thermal protection switch

9. Operational readiness

Illuminated Control system ready for operation
Flashes (0,5Hz) PC access active
Not active Fault present

10. Collective fault

Illuminated Fault with connected components

11. Internal / external fire alarm

Illuminated Triggered from keypad / fire detector / pushbutton / control point
or
Triggered by higher-level control system

12. Closure open

Illuminated Open limit switch actuated
Flashes (1Hz) Open limit switch fault
or
Open and closed limit switches pressed simultaneously

8.2 Connection values

The following specified values are maximum values for the respective components that can be connected.

Monitoring door position:	Limit switch	Sum max.	250 mA
Monitoring closing area:	Initiators / light barriers	Sum max.	250 mA
	Safety contact strips	Sum max.	250 mA
Re-opening:	Door drive	Sum max.	250 mA
Hold-open device:	Holding magnets 2x 900 mA (21W)	Sum max.	1,800 mA
Fire detection:	Fire detector	Sum max.	500 mA
	Flashing light / horn	Sum max.	100 mA
Fire alarm system:	Signal exchange	Sum max.	100 mA
Modul commissioning:	Remote control	Sum max.	100 mA

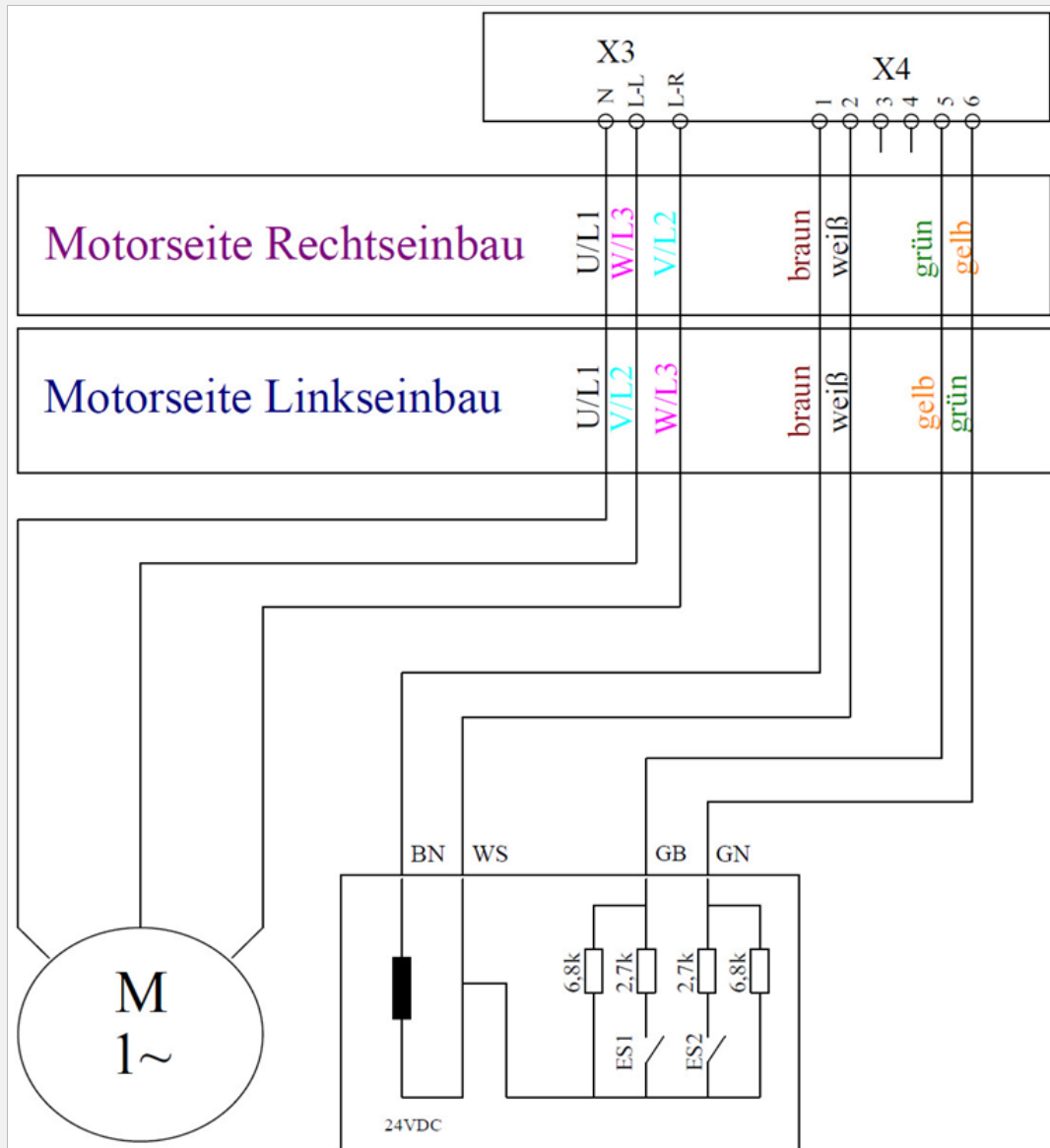


The system must be designed to ensure that the maximum control system load as per the power rating on the nameplate is not exceeded by the components!

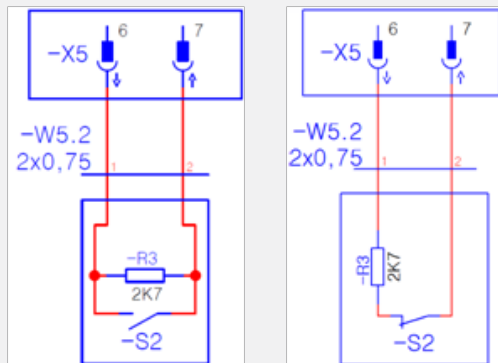
8.3 Mains supply (on-site)

Terminal assignment:

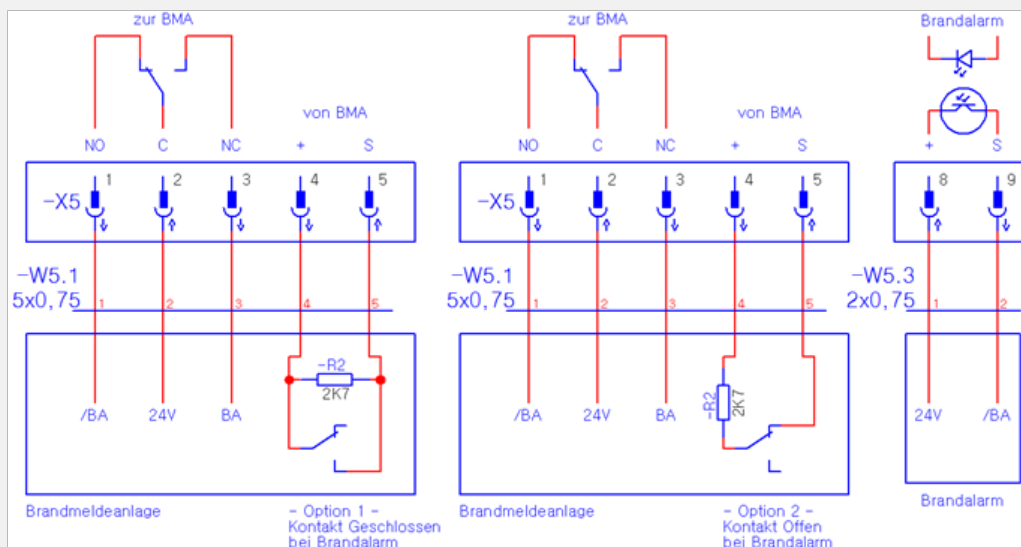
X1:N	Input	N	on-site power supply
X1:L1	Input	L1	on-site power supply - 3~ 400 V AC / 1~ 230 V AC
X1:L2	Input	L2	on-site power supply - 3~ 400 V AC
X1:L3	Input	L3	on-site power supply - 3~ 400 V AC



8.6 External pushbutton



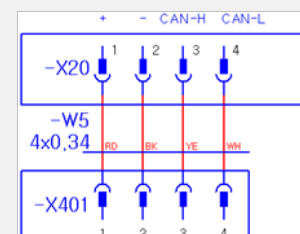
8.7 Fire alarm system



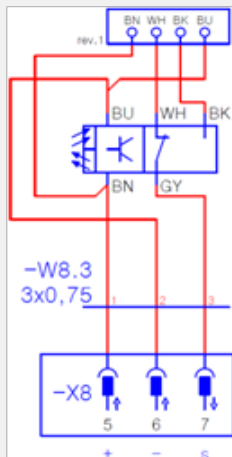
8.8 CAN-BUS HPS-CALLPOINT control point



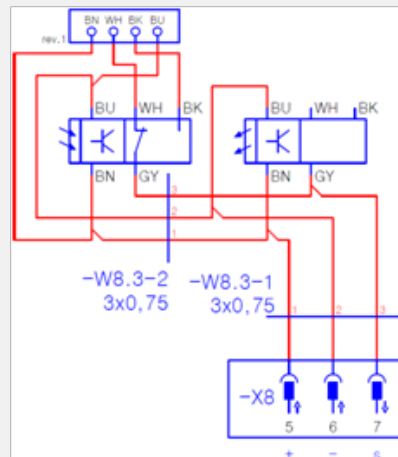
Using the corresponding cable types UNITRONIC BUS CAN or UNITRONIC BUS CAN FD P is mandatory. The use of unshielded cables can lead to erroneous function and defective control components as a result of EMC influences.



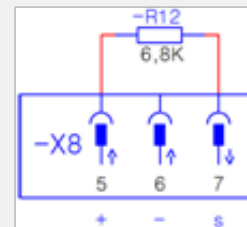
8.9 Closing area monitoring



RLK28-FC-55-Z/31/116

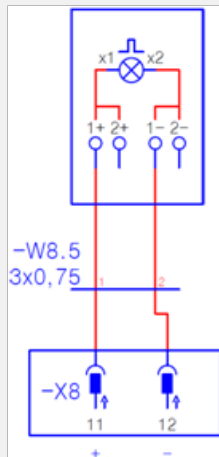


LA28/LKA28-FC-Z/31/116

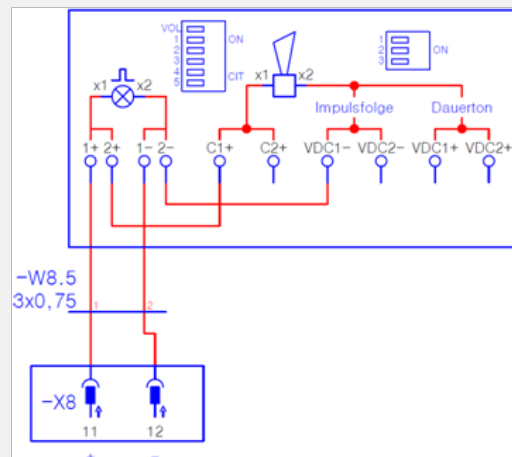


not used

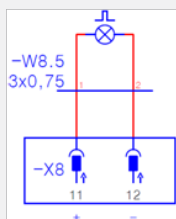
8.10 Horn / flashing light



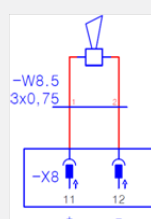
SOLISTA LX WALL



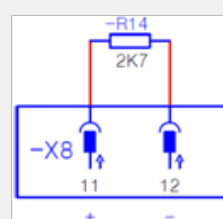
ROLP LX WALL



Flashing light



Horn



Output not used

8.11 Potential-free signal-exchange

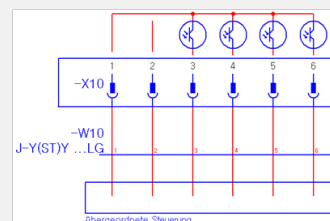
All signals are potential-free, fail-safe and supplied with 24 V from an external control system. This serves for the additional display of closure statuses. The configuration is done in the HPS CONTROL software according to the graphic below. Configuring different faults as a collective message based on necessity is possible.

Fuse input voltage on circuit board: 100 mA (Anlaufstrom)
Maximum permissible output current per signal: 50 mA

The cable monitoring and fuse occurs via the on-site control system.



Using the corresponding cable types J-Y(ST)Y...LG and J-H(ST)H...BD is mandatory. The use of unshielded cables can lead to erroneous function and defective control components as a result of EMC influences.



Terminal assignment:

X10:1	Input	24 V DC	Feed - external voltage from higher-level control system
X10:2	Input	0 V DC	Feed - external voltage from higher-level control system
X10:3	Output	24 V DC 0 V DC	„no fire alarm“ (only internal system fire alarms) „fire alarm“
X10:4	Output	Selection	Fault/ open / closed / closing area / status messages
X10:5	Output	Selection	Fault/ open / closed / closing area / status messages
X10:6	Output	Selection	Fault/ open / closed / closing area / status messages

8.12 Memory card



The system data, configuration and fault memory are all stored on a micro SD memory card. The entire set of LEDs on the keypad will flash if the memory card is defective or not plugged in properly.

Never remove the memory card during operation otherwise data will be lost.

Reading the memory card with a PC is not possible and will also result in data loss.

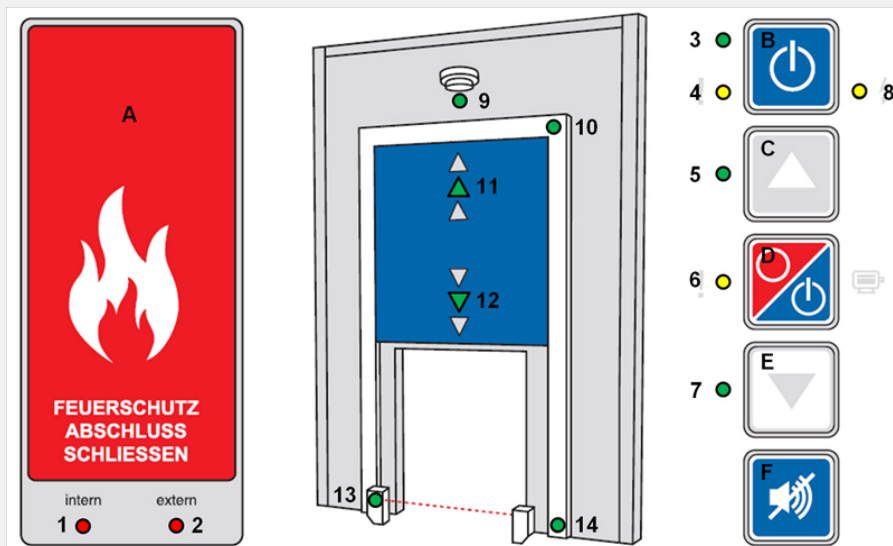
9 Terminating resistor

R1	Fire detector evaluation	2.7 kΩ	X7:1	X7:2
R2	Fire alarm system	2.7 kΩ	X5:4	X5:5
R3	External pushbutton	2.7 kΩ	X5:6	X5:7
R4	IBN module - open	2.7 kΩ		
R5	IBN module - close	2.7 kΩ		
R6	Limit switch 1 - switching resistance	2.7 kΩ		
R7	Limit switch 1 - base load	6.8 kΩ		
R8	Limit switch 2 - switching resistance	2.7 kΩ		
R9	Limit switch 2 - base load	6.8 kΩ		
R10	Limit switch 3 - switching resistance	2.7 kΩ		
R11	Limit switch 3 - base load	6.8 kΩ		
R12	Light barrier 1 - simulation	6.8 kΩ	X8:5	X8:7
R13	Light barrier 2 - simulation	6.8 kΩ	X8:8	X8:10
R14	Horn / flashing light	2.7 kΩ	X8:11	X8:12
R15	Contact strip 1 - switching resistance	2.7 kΩ		
R16	Contact strip 1 - base load	6.8 kΩ		
R17	Contact strip 2 - switching resistance	2.7 kΩ		
R18	Contact strip 2 - base load	6.8 kΩ		
R19	Thermal contact motor	10 kΩ	X9:1	X9:4

10 Troubleshooting and fault resolution

Various status notifications are indicated on the keypad which can help with fault localization.
All fault notifications that can be displayed are listed below

10.1 Fault resolution through the keypad



Status indicator state	Cause	Fault resolution
All status indicators (LED 1 – LED 14) - flashing (1Hz)	Micro SD card not inserted / defective	See memory card replacement Reset: Acknowledge fault (Button B)
„Fire detector“ (LED 9) – not active	Smoke or heat detector tripped Detector cable wire break	Check trigger status of all detectors / check cabling Reset: Check condition concerning closure / acknowledge fault (Button B)
„Open“ (LED 10) - flashes (1Hz)	Limit switch signal failure	Check installed hardware / connection cables Reset: Acknowledge fault (Button B)
„Closed“ (LED 14) - flashes (1Hz)	Limit switch signal failure	Check installed hardware / connection cables Reset: Acknowledge fault (Button B)
„Open / Closed“ (LED10 + LED14) - flashes (1Hz)	Open and closed limit switches actuated simultaneously	Check installed hardware Reset: Acknowledge fault (Button B)

Status indicator state	Cause	Fault resolution
„Closing area“ (LED 13) – flashes (1Hz)	Closing area occupied > 120 seconds Light barrier or initiator defective Contact strip defective or actuated when closure in „open“ state	Check installed hardware Reset: Acknowledge fault (Button B) Disconnect voltage supply + Acknowledge fault (Button B)
„Opening active“ (LED 11) – flashes (1Hz)	Closure brought to a halt during opening	Press open (Button C) / Close (Button E) Press motor acknowledgement longer than 2 seconds
„Closing active“ (LED 12) – flashes (1Hz)	Closure brought to a halt during closing	Press open (Button C) / Close (Button E) Press motor acknowledgement longer than 2 seconds
„Operational readiness“ (LED 3) – not active	Fault present / Fault not acknowledged	Fault resolved Reset: Acknowledge fault (Button B)
„Operational readiness“ (LED 3) – flashes 0,5 (Hz)	Communication active between control system and PC	Log out of HPS Control
„Collective fault“ (LED 4) - illuminated	Limit switches 1/ 2/ 3 Closing area 1/ 2 Contact strip 1/2 Power supply fault Mains voltage fault	Test installed components Rest: Acknowledge fault (Button B)
„Mains supply“ (LED 8) - illuminated	230 V power supply unit feed interrupted	Check feed / input fuses Rest: Acknowledge fault (Button B)
„Motor fault“ (LED 6) - illuminated	Motorized reopening disrupted Motor power supply cut / thermal protection tripped / motor control unit fault	Test installed hardware (motor documentation) / check connection cable for damage Disconnect voltage supply / acknowledge fault (Button B)
„Internal fire alarm“ (LED 1) - illuminated	Pushbutton (central unit keypad or, if available, HPS CALLPOINT / external pushbutton) actuated / detector cable wire break	Keypad connection cable not inserted Check cabling / switch contact
	Smoke or heat detector tripped / Detector cable wire break	Check trigger status of all detectors / check cabling
	Oscillator failure for the controller of the control system	Restart system - if unsuccessful, hardware replacement necessary Check condition concerning fire protection closure / acknowledge fault (Button B)
„External fire alarm“ (LED 2) - illuminated	Fire alarm of on-site fire alarm system tripped / detector cable wire break	Check connection cable Check fire alarm system condition / acknowledge fault (Button B)

11 Maintenance and inspection

11.1 Monthly checks



The hold-open system must be kept operational by the operator at all times. A function check must be performed at intervals of a maximum of one month apart. With respect to the measures to be conducted as part of the inspection, please refer to parts of DIN 14677.

The cope, result and time of the inspection are to be recorded. These records are to be kept by the operator. This inspection may be conducted by anyone, independently, following appropriate training. No special qualifications are required.

11.2 Yearly inspection and maintenance



The operator is also obliged to carry out an inspection of the hold-open system at least every 12 months with respect to the correct and fault-free interaction of all devices and to perform maintenance (or have it done). With respect to the measures to be conducted as part of the annual maintenance and inspection, please refer to parts of DIN 14677.

The annual maintenance and inspection may only be carried out by specialist or someone is qualified for that particular purpose. The cope, result and time of the annual maintenance and inspection are to be recorded. These records are to be kept by the operator.

The inspection must include the following points, which go beyond the requirements outlined in DIN EN 14677:

- > Documentation of any changes to the system in compliance with a valid approval notification
- > If an approval-related component of the hold-open system has to be replaced with a type of replacement, then there must be a new approval based on the approval which applies on that particular date. If necessary, the system may have to be reconstructed.
- > Arrangement of the fire detectors according to the requirements of the DIBt at the time of approval
- > The position of the manual trigger still meets the requirements of the DIBt
- > The interaction of all components is to be rechecked, whereby triggering must be performed both by simulating the parameters (e.g. smoke detectors: appropriate test gas: thermal detectors: appropriate hot air blower) upon which the function principle of the detector is based, and manually (unscrewing/ removing from the socket). All fire detectors and manual trip switches must be tested.
- > Test whether the closure is enabled for autonomous closing when the hold-open system becomes inoperative (e.g. due to the removal of a detector or due to a power cut)
- > Replace button cell (CR2032) on controller board (annually)
- > If wireless smoke or thermal detectors are used ensure that button cell and battery inside of them are replaced triennial
- > The components of the hold-open system must be thoroughly cleaned, especially the fire detectors
- > Closing area monitoring present and functional
- > Correct closing operation of the closure

EC Declaration of Conformity

In the sense of the EU directives
2014/35/EU, 2014/30/EU

Name and address of the manufacturer:

Hodapp GmbH & Co. KG
Großweierer Straße 77
77855 Achern-Großweier
- Germany -

This declaration only relates to the electrical devices in the condition in which they have been brought into circulation. Parts subsequently attached by the end user and/or any subsequent interference are not taken into consideration. The declaration shall lose its validity if the product is converted or modified without permission.

We hereby declare that the product: Hold-open system

HPS SUPERVISION

complies with all the relevant conditions of the Low-Voltage Directive 2014/35/EU and the directive 2014/30/EU on electromagnetic compatibility.

Model name:

PSU60

Harmonized standards applied

EN 60950-1:2006/AC:2011	IT equipment - Safety - Part 1: General requirements
EN 60335-1:2012/AC:2014	Safety of electrical appliances for household and similar use - Part 1: General requirements
EN 61000-6-2:2005/AC:2005	Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity for industrial environments
EN 61000-6-3:2007 /A1:2011/AC:2012	Electromagnetic compatibility (EMC) - Part 6-3: Generic standards - Emission standard for residential, commercial and light-industrial environments
EN 61000-3-2:2014	Electromagnetic compatibility (EMC) - Part 3-2: Limits – Limits for harmonic current emissions (device input currents ≤ 16 A per cable)
EN 61000-3-3:2013	Electromagnetic compatibility (EMC) - Part 3-3: Limits – limitation of voltage changes, voltage fluctuations and flickers in low-voltage public supply systems for devices and equipment with a rated current ≤ 16 A per cable, not subject to a special connection

Quality standards

ISO9001:2015

Quality management systems – Requirements

Authorized representative for compiling the relevant technical documentation (EU address)

Hodapp GmbH & Co. KG
Michael Franke
Großweierer Straße 77
77855 Achern-Großweier
Germany

Achern, 22/09/2018

Name: Michael Franke
Item: Development hold open device



Signature

HODAPP

Großweierer Straße 77 D-77855 Achern-Großweier

EC Declaration of Conformity

In the sense of the EU directives
2014/35/EU, 2014/30/EU

Name and address of the manufacturer:

Hodapp GmbH & Co. KG
Großweierer Straße 77
77855 Achern-Großweier
- Germany -

This declaration only relates to the electrical devices in the condition in which they have been brought into circulation. Parts subsequently attached by the end user and/or any subsequent interference are not taken into consideration. The declaration shall lose its validity if the product is converted or modified without permission.

We hereby declare that the product: Switching power supply LFWLT60-1003

complies with all the relevant conditions of the Low-Voltage Directive 2014/35/EU and the directive 2014/30/EU on electromagnetic compatibility.

Model name:

PSU60

Harmonized standards applied

EN 60950-1:2006/AC:2011	IT equipment - Safety - Part 1: General requirements
EN 60335-1:2012/AC:2014	Safety of electrical appliances for household and similar use - Part 1: General requirements
EN 61000-6-2:2005/AC:2005	Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity for industrial environments
EN 61000-6-3:2007 /A1:2011/AC:2012	Electromagnetic compatibility (EMC) - Part 6-3: Generic standards - Emission standard for residential, commercial and light-industrial environments
EN 61000-3-2:2014	Electromagnetic compatibility (EMC) - Part 3-2: Limits – Limits for harmonic current emissions (device input currents ≤ 16 A per cable)
EN 61000-3-3:2013	Electromagnetic compatibility (EMC) - Part 3-3: Limits – limitation of voltage changes, voltage fluctuations and flickers in low-voltage public supply systems for devices and equipment with a rated current ≤ 16 A per cable, not subject to a special connection

Quality standards

ISO9001:2015 Quality management systems – Requirements

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We hereby declare that the product:

CAN bus control unit

complies with all the relevant conditions of the Low-Voltage Directive 2014/35/EU and the directive 2014/30/EU on electromagnetic compatibility.

Model name:

HPS-CALLPOINT

Harmonized standards applied

EN 60950-1:2006/AC:2011	IT equipment - Safety - Part 1: General requirements
EN 60335-1:2012/AC:2014	Safety of electrical appliances for household and similar use - Part 1: General requirements
EN 61000-6-2:2005/AC:2005	Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity for industrial environments
EN 61000-6-3:2007 /A1:2011/AC:2012	Electromagnetic compatibility (EMC) - Part 6-3: Generic standards - Emission standard for residential, commercial and light-industrial environments
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EN 61000-3-3:2013	Electromagnetic compatibility (EMC) - Part 3-3: Limits – limitation of voltage changes, voltage fluctuations and flickers in low-voltage public supply systems for devices and equipment with a rated current ≤ 16 A per cable, not subject to a special connection

Quality standards

ISO9001:2015 Quality management systems – Requirements

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Germany

Achern, 22/09/2018

Name: Michael Franke
Item: Development hold open device



Signature

HODAPP

Großweierer Straße 77 D-77855 Achern-Großweier

*Andere denken nach...
Wir denken vor!*



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