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### Introduction

#### D+H service and sales partners

Safety in the building not only comes from the product. Above all, safety results from competence. All D+H service and sales partners are certified and regularly trained specialist SHEV businesses. Working closely with D+H Mechatronic AG as the manufacturer, they develop comprehensive system solutions for SHEVs and natural building ventilation. With integral customer support and continuous quality assurance in all phases of the project: from sales advice, planning and project management through to installation, commissioning, repair and service. The highest national and international quality standards are therefore reliably fulfilled.

#### Installation and operation

The comprehensive network of D+H service and sales partners is at your disposal to professionally install your system and commission it. Our partner system guarantees that D+H products are installed exclusively by trained and experienced fitters, in compliance with the technical guidelines and specifications. Personal handover and training for users is included.

#### Maintenance and repair

Every building operator is responsible for ensuring that its safety equipment works reliably. Regular and professional maintenance ensures that your system is always operational. As specialist SHEV businesses, the D+H service and sales partners are best qualified to carry out maintenance. By taking out a maintenance contract, operators can prove at all times that they have fulfilled their obligations.

#### Quality with guarantee

For all D+H SHEV systems, which have been installed by a D+H service and sales partner and are regularly serviced, you will receive extended warranty services. Ask your local D+H service and sales partner about this.

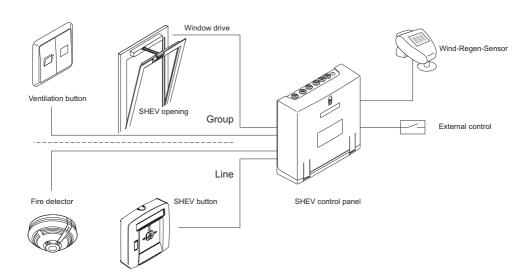
#### Always nearby

With the network of our own subsidiaries and exclusive partners, we are represented nearly all over the world.

Are you looking for your local D+H partner? Simply visit our website:

www.dh-partner.com

# **Assembly scheme**



**D+H** 99.828.32 2.1/03/24 English CPS-B1 3/24

#### WARNING

Read all safety warnings, instructions, illustrations and specifications provided with this product. Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury. Save all warnings and instructions for future reference.

### Intended use

- SHEV control panel in particular for staircases
- Microprocessor based control panel
- 1 line, 1 group
- 2,5Aor5Aactuating current
- Comfort functions for daily ventilation
- Only for inside mounting

### Safety notes

# Operating voltage 230 V AC! Risk of injury from electric shock!

- Connection has to be carried out only by an authorized electrical specialist
- Only for inside mounting
- Just use unchanged original D+H parts

### Servicetimer

An overdue maintenance of the system will be indicated by the control panel after about ca. 14 to 16 months.

The yellow LED in the smoke vent button will start flashing.

A malfunction of the smoke vent system will be still indicated by the extinction of the green LED in the smoke vent button.

After the maintenance time is expired (approx. 14 to 16 months), the ventilation function OPEN can be interrupted depending on the presetting of the service timer.

Attention: Reset of the service timer can be carried out by a specialist company only, who has been authorized by the appliance manufacturer.

### Important regulations

Observe regulations for danger warning systems VDE 0833, guidelines for electrical systems VdS 2221, VDE 0100, DIN 18232 for smoke and heat vent systems, regulations of the local fire-brigade and of EVU for connection to mains supply.

### **Declaration of Conformity**

We declare under our sole responsibility that the product described under "Technical Data" is in conformity with the following regulations:

2014/30/EU, 2014/35/EU, 2011/65/EU S.I. 2016/1091, S.I. 2016/1011, S.I. 2012/3032

Technical file at:

D+H Mechatronic AG, D-22949 Ammersbek

Dirk Dingfelder Maik Schmees

21.04.2023

4/24 CPS-B1 English 99.828.32 2.1/03/24



### **Technical data**

Туре	CPS-B1-2.5-0101	CPS-B1-5-0101
Power supply	230 V AC, 50 Hz (195 253 V AC)	230 V AC, 50 Hz (195 253 V AC)
Rated power	140 VA	145 VA
Stand-by operating	< 2 W	< 2 W
Output voltage	24 V DC	
Ripple	<0,5 Vpp; < 1%, load-depend	dent
Monitoring:		
Output current	250 mA	
Mode of operation	Continuous duty	
Alarm / Ventilation:		
Output current	2,5 A	5 A
Mode of operation	Short-time duty, 30% ED	Short-time duty, 30% ED
Number of lines / groups*	1/1	
Fire detectors per line	max. 8 pcs.	
SHEV buttons per line	max. 8 pcs.	
Line voltage	15 V DC	
Temperature range	-5 +40°C	
Ingress protection	IP 30	
Protection class	II, with fuctional ground	
Housing:		
Material	Plastic	
Colour	white	
Dimensions WxHxD	310 x 310 x 104 mm	
* D+H Highspeed (HS) drives will be s	supported.	

# SHEV opening

Smoke gases are to be carried off as unhindered as possible through smoke and heat vent opening in case of fire. Size, kind and arrangement of the opening is of decisive significance for an optimal effect of the smoke and heat vent system. These requirements are defined in the relevant regulations of the respective country. More informations, are also available under www.rwa-heute.de.

The SHEV opening should be coordinated with the responsible fire protection authority.

### **Notes on drives**

#### High-speed function (HS):

All D+H drives with SHEV high-speed function are supported. In daily ventilation operation, a considerable noise reduction is achieved through the reduced drive speed. In case of SHEV the drives run with a very high speed to reach the OPEN position defined within 60 seconds at the most.

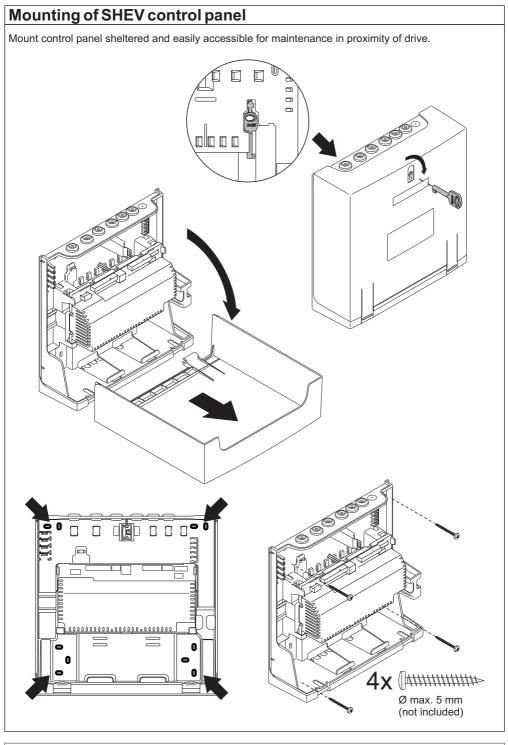
#### SHEV retriggering:

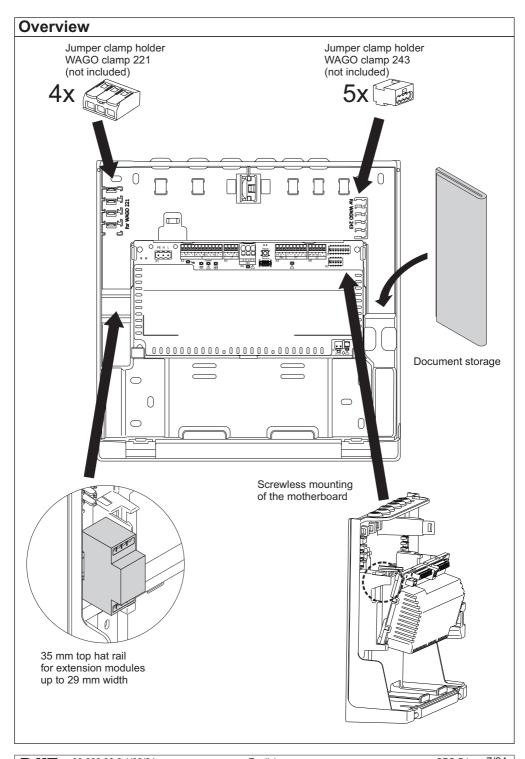
(When DIP switch S1.5 = ON)

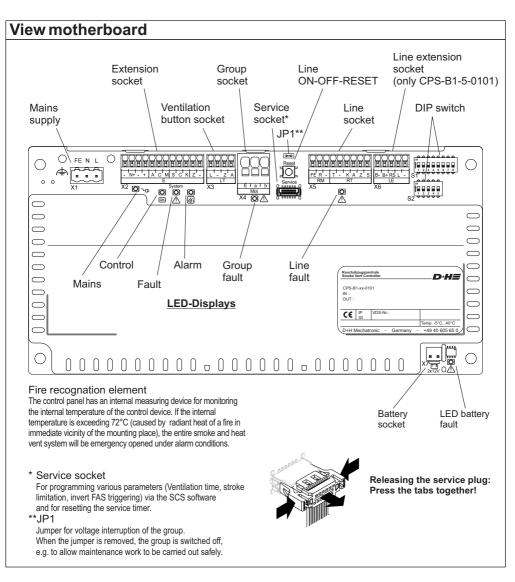
The smoke vents will be triggered with an OPENimpulse every 2 minutes for a duration of 30 minutes. For this, the drives must be blockage safe. All D+H drives meet this precondition.

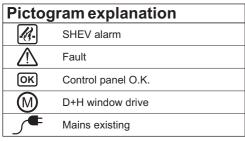
#### Mounting of the drives:

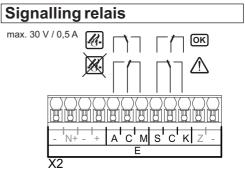
Please take mounting informations from the relevant instruction for use of the respective drive, because of varied possibilities for choosing drives.











# Terminal assignment

No.	Name	Description
Mains supp	ly X1	
X1.1	FE	Functional ground
X1.2	N	Neutral conductor
X1.3	L	Phase
Extension s	ocket X2	
X2.1	_	Reference potential
X2.2	N+	Output not emergency-supplied potential + (max. 250 mA)
X2.3	_	Reference potential
X2.4	+	Output emergency-supplied potential *
X2.5	Α	Isolated output alarm - normally open contact
X2.6	С	Isolated output - COM
X2.7	М	Isolated output no alarm / magnet - normally closed contact
X2.8	S	Isolated output fault - normally closed contact
X2.9	С	Isolated output - COM
X2.10	K	Isolated output Control - normally open contact
X2.11	Z	Input, central function, closing of group
X2.12	_	Reference potential
	button socke	· · · · · · · · · · · · · · · · · · ·
X3.1	L	Not closed signal output
X3.2	_	Reference potential
X3.3	Z	Ventilation CLOSE input
X3.4	A	Ventilation OPEN input
Group sock		1.000
X4.1	E	Monitoring
X4.2	а	Drive output Mot. a
X4.3	b	Drive output Mot. b
Line socket	X5	
X5.1	FE	Shield connection for fire detector cable
X5.2	R	Input fire detector triggering/monitoring
X5.3	_	Reference potential
X5.4	Т	Input smoke vent button triggering/monitoring
X5.5	_	Reference potential
X5.6	K	Output smoke vent button control display
X5.7	A	Output smoke vent button alarm display
X5.8	Z	Input smoke vent button reset line / close group
X5.9	S	Output smoke vent button fault display
		6 (only CPS-B1-5-0101)
X6.1	B-	FAS reference potential input
X6.2	B+	FAS alarm input +24V/+48V
X6.3	RS	Additional reset input with pulse function
X6.4	L	Input/output mutual alarm interlock
X6.5	_	Reference potential
Battery soc		Troioronoo poternidi
X7.1	AKKU–	Negative lead from battery
X7.1	AKKU+	+24V lead from battery
		reseted to the emergency supplied notantial of the CDS P (V2.4, terminal ±), their suprege

<sup>\*</sup> If additional loads are connected to the emergency-supplied potential of the CPS-B (X2.4, terminal +), their average quiescent current consumption in the event of a power failure over 72 hours must not be higher than the value specified below.

The maximum load capacity of the emergency potential is 250 mA.

Туре	2,2 Ah (Battery-Type 2)	3,4 Ah (Battery-Type 8)	
CPS-B1-2.5-0101	16 mA	-	
CPS-B1-5-0101	_	22 mA	

# **DIP** switch settings

Delivery state







S1.1 Line fault = alarm  ON In case of a line fault (e.g. at an interrupted detector line or short circuit) the control panel will be switched on alarm, that means the smoke vent opens.  S1.2 Group fault = alarm  ON In case of a group fault (e.g. in case of an interrupted monitoring line) the control pawill be switched on alarm, that means the smoke vent opens.  DIP switch must be on ON in conjunction with a ground in thermal maximal detector (e.g. THE4).  S1.3 Deactivate remote reset detector line  ON Smoke detector alarm can not be reset by single pressing on the button "close SHE in the smoke vent button.  OFF Smoke detector alarm will be reset by pressing on the button "close SHEV" in the smoke vent button.  S1.4 Closing group in case of alarm  ON In case of alarm the drives will close.  S1.5 SHEV retriggering  ON The smoke vent is triggered for a duration of 30 minutes in intervals of 2 minutes according to VdS 2581.  S1.6 Power failure "CLOSE"  ON In case of power failure the drives will close automatically.  Caution: Danger of crushing! The drives close automatically.  S1.7 Extended line monitoring of the group  ON All wires to the drives are monitored in all states.  OFF Standard line monitoring, Higher compatibility with non-D+H drives and older drives with combined "ACB.a/HS" lines (CDC-ACB and ZA-ACB).  S1.8 Operation without battery  ON The charging and monitoring of the batteries is deactivated.  DIP switch S2  S2.1 Storage operation OPEN  ON Drives OPEN up to final position by single pressing on vent button.  OFF Drives are opening only so long as the vent button is pressed.  S2.2 Storage operation CLOSE  ON Drives CLOSE up to final position by single pressing on vent button.  OFF Drives are opening only so long as the vent button or the button "close SHEV" in the smoke vent button is pressed.  S2.3 Ventilation time limitation  ON The drives will automatically close again after the ventilation time set (Factory settin 10 min., adjustable via SCS software)  Caution: Danger of crushing! The drives c	DIP swi	tch S1		
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# Cables for D+H smoke an heat vent systems

When selecting and installing the cables, the regional electrical installation regulations concerning wiring systems and the necessary safety equipment, or guidelines on integrity maintenance of electric lines are observed (e.g. MLAR).

#### Notice:

No type designation is given for these cables, because of a large variety on the market. Please consult your D+H partner.

### Group cable (control panel - drive)

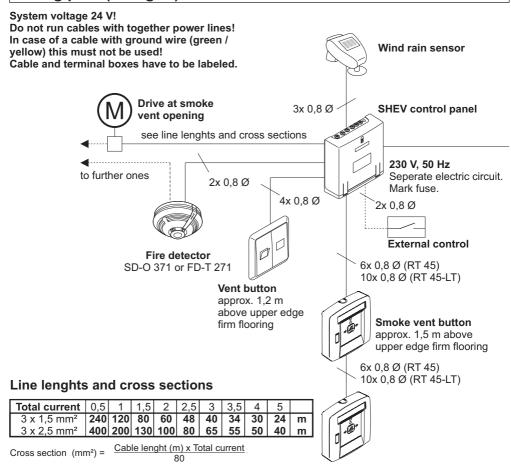
At least three wire design:

- 2 wires for the supply of the drive
- 1 wire for line monitoring, on which also the SHEV high speed (HS) signal is transmitted to the drive. If group DIP switch 8 is ON, the group will in case of a fault automatically triggered and opens.

#### Line cable (control panel - detector)

The cables are monitored for short circuit and for interruption. If line DIP switch S1.1 is ON, the group will in case of a fault automatically triggered and opens.

### Wiring plan (Paragon)

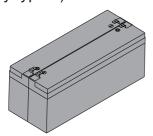


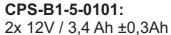
# 24 V - Emergency supply

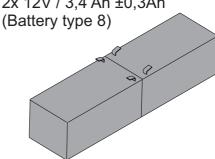
Emergency power supply for 72 hours.

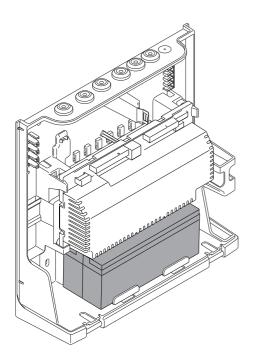
Use VdS approved storage batteries only!

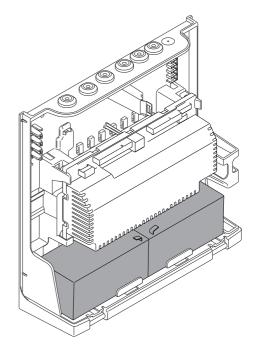
**CPS-B1-2.5-0101:** 2x 12V / 2,2 Ah ±0,3Ah (Battery type 2)





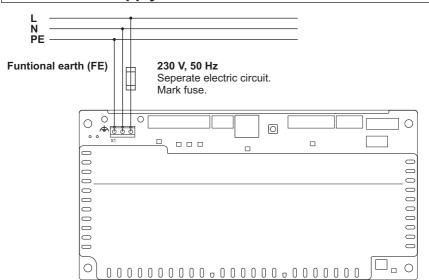


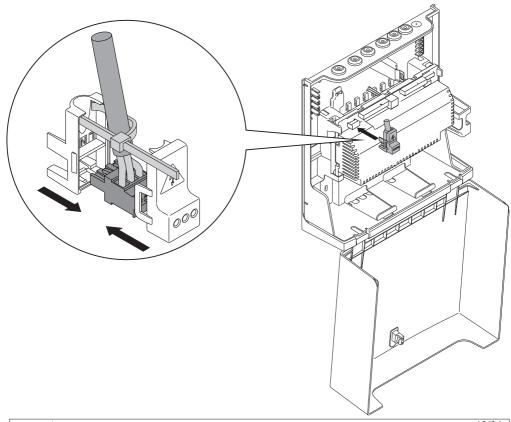


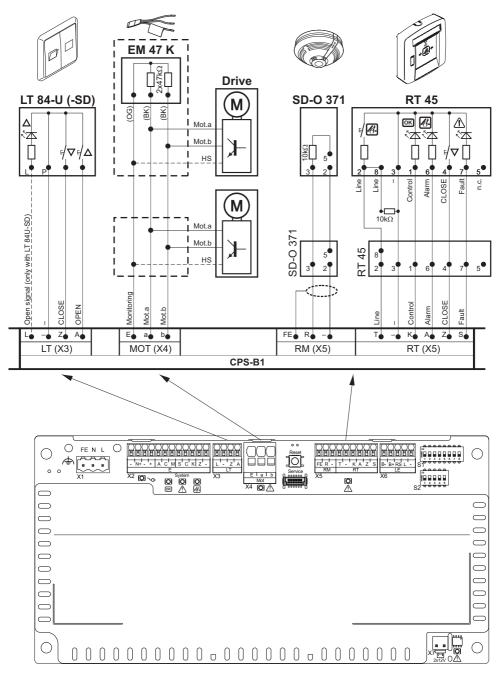


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# 230 V - Power supply

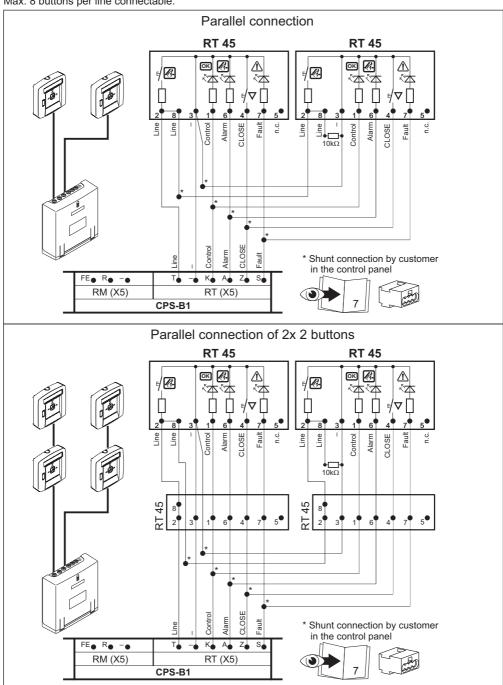






### Connection of smoke vent buttons

Max. 8 buttons per line connectable.



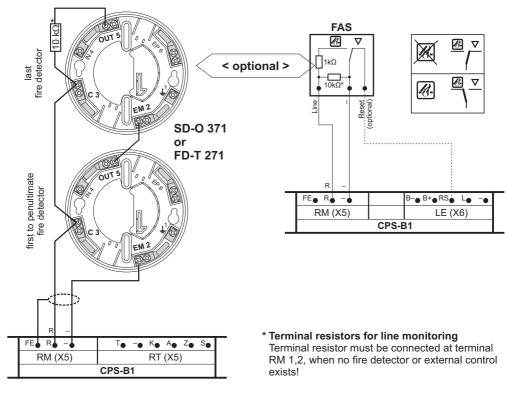
### Connection of fire detector

Max. 8 fire detectors connectable.

Only D+H approved detectors must be used.

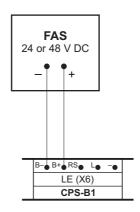
# Connection of fire alarm system

Connection via line socket. Triggering via switching contact.



# Connection of fire alarm system

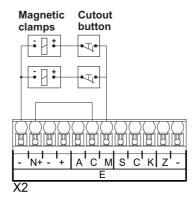
Connection via line extension socket. Triggering via voltage input.



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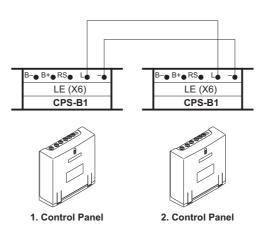
# **Connection of magnetic clamps**

Magnetic clamps 24V (max. 250 mA overall power) No output voltage during power failure!



# Connection of alarm interlock

Country specific function.



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# Informations for starting

Carry out following sight and performance checks for switching-on the smoke and heat vent control panel. Partial or incomplete connection of components can cause malfunction. All cables no connected? Check following connections: mains 230 V, drives, smoke vent buttons, when necessary fire detectors and vent buttons. yes See wiring an connection plans pages 14-15. All necessary moving loads connected? Smoke vent components are line-monitored A malfunction is connected as alarm in delivery condition of control panel. The smoke vent opens self-acting and can be reset under special conditions only. yes nο Factory set? Delivery condition of DIP switch see page 10. (DIP switch) yes Resistor must be cramped in electric last button on terminal 3/8 (RT 45). 10kO resistor in no See connection plan pages 14-15. smoke vent button? yes Resistor must be cramped in last or only fire detector on terminal 3 and 5 (type SD-O/FD-T). Resistor remains in control panel between no terminal RM "R" and "-", when no fire 10kΩ resistor in fire detector? detector is connected. See connection plan page 16. yes End module nο End module on last or only drive in junction 2x47kΩ in junction box? box on wire "E" orange, "a" black, "b" black. See connection plan page 14. yes Connect mains. no Check line safety fuse in distribution box and LED mains lightens? fuse mains in control panel. yes Mains still not available or line switch on "0" Connect batter no lines. Control I or one of fuses faulty. ightens? yes Performance check alarm/reset and ventilation yes Smoke vent no

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flap opens and closes?

Possibly change poles in drive.

### Inspection

Regular visual inspection between maintenance by the operator or a trained person. Immediately correct any defects.

#### Indicators:

- Green LEDs in the buttons must illuminate.
- Yellow LEDs in the buttons and the control panel are not allowed to illuminate or flash (fault).
- If the green LEDs do not illuminate or if the yellow LEDs illuminate or flash, contact After Sales service

#### Examination:

- Check all appliances and cable connections for outer damage and dirt accumulation.
- Fire detectors, smoke vent buttons, smoke vents and so on must not be impaired in their function by goods in storage or structural changings.

### **Maintenance**

Once a year by a specialist company, who is authorized by the appliance manufacturer. Renew test badge, keep log book.

The respective current D+H maintenance instruction is decisive.

D+H authorized expert companies have been specially trained by D+H for carrying out expertly this maintenance, and they get automatically the latest maintenance instructions.

Following tests must be carried out in the course of maintenance:

- Outside examination / inspection of system components
- Checking of all relevant power supply units
- Functional testing of connected system components
- Record of competent carrying-out of maintenance, and designation according to directions

### Repair and cleaning

Inspection and maintenance has to be carried out according to D+H maintenance notes. Only original D+H spare parts may be used. Repair is to be carried out exclusively by D+H.

Wipe away debris or contamination with a dry, soft cloth.

Do not use cleaning agents or solvents.

# **Disposal**

Electrical devices, accessories, batteries and packaging should be sorted for environmental-friendly recycling. Do not dispose electrical devices and batteries into household waste!

Only for EC countries:

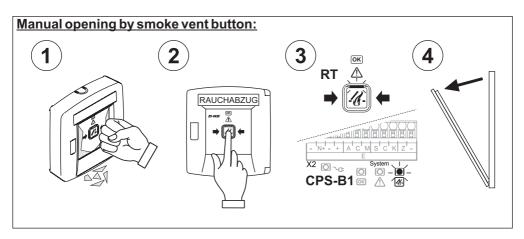
According the European Guideline 2012/19/EU for waste electrical and electronic equipment and its implementation into national right, electrcal devices that are no longer usable must be collected separately and disposed of in an environmentally correct manner.

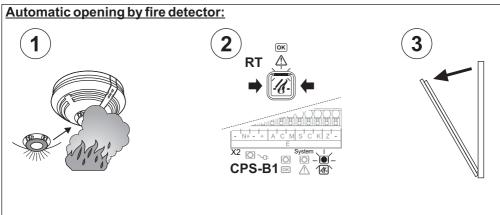


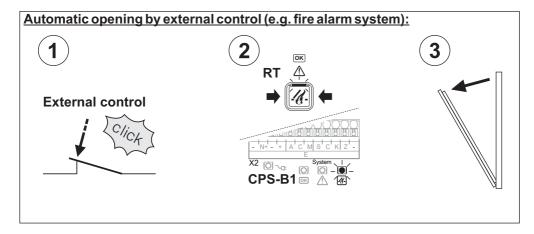


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# Operation - Release in case of alarm

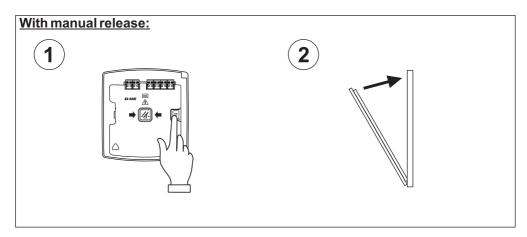


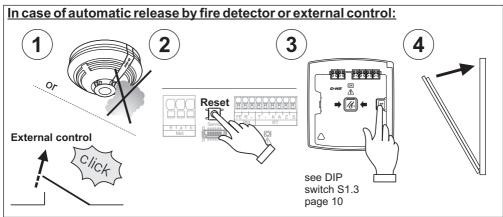


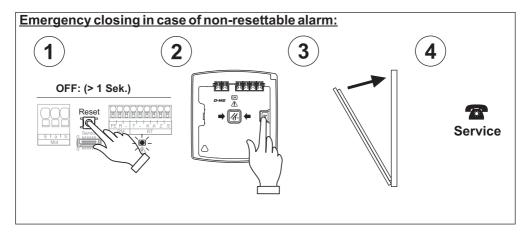


# **Operation - Closing after alarm**

Open the housings (control panel and buttons) using the enclosed keys.

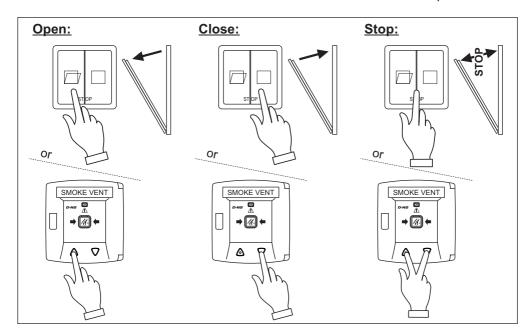






# **Operation - Day-to-day ventilation**

Ventilation button or SHEV button with ventilation function RT 45-LT required.



# **Operation - Weather automatic**

Only if wind detector or rain detector available.

Upon triggering of the corresponding sensor, the group of the control panel is closed.

If alarm is released by a smoke and heat vent system, the system will open also in case of wind and rain.

Do not ventilate via smoke vent button, because otherwise there would be a danger of damage by wind or water.

The weather automatic can be switched-off via an **optional automatic switch**, if gap ventilation is required in case of bad weather.

Gap ventilation is not possible in case of bad weather, if no automatic switch available.

If the weather automatic is switched on , the system will automatically

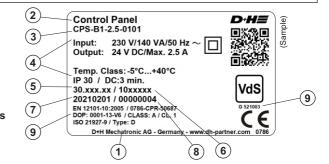
close in case of wind or rain.

The system will not automatically open again, if wind or rain has stopped. Opening of the system for ventilation via vent button.



# Type plate

- 1- Name of the manufacturer
- 2- Product name
- 3- Type designation
- 4- Technical data
- 5- Material number
- 6- Lot no.
- 7- Date of manufacture
- 8- Serial number
- 9- Standards and certificate numbers



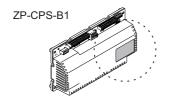


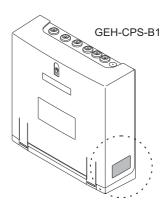
# The following notice/information must be observed:

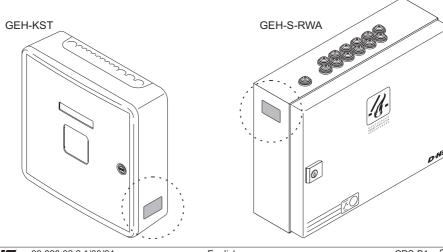
The SHEV control panel CPS-B XX is only certified in accordance with the harmonised standard DIN EN 12101-10 in connection with one of the housings listed here.

The certification expires if other enclosure types are used!

### Type plate positions:









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