

03.2023

PRODUCT OVERVIEW CONTROLE UNITS



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SHEV – Compact to the Control Units chapter SHEV - Modular to the chapter **Control Units Accessories for** to the **SHEV Control Units** chapter **Accessories for** to the **Control Units** chapter **Natural Ventilation** to the **Control Units** chapter to the **EPD Values** chapter



Valid from 15.03.2023

IMPORTANT NOTE

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By pasting this product list, previous editions become invalid.

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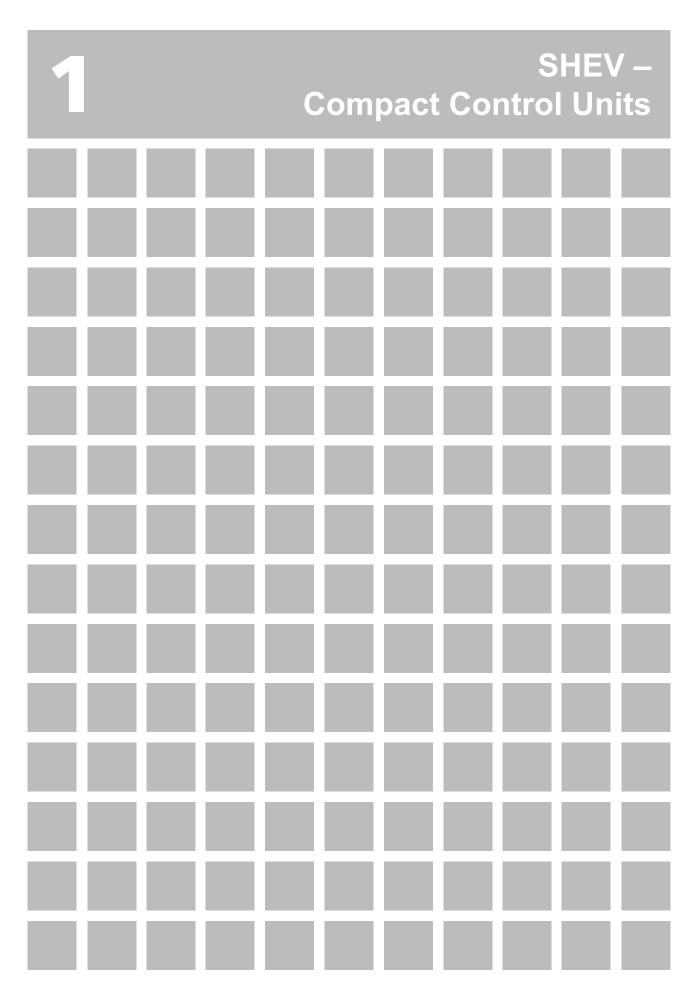


LIST OF AE	BREVIATIONS
aP	Surface mounting
WxHxD	Width x Height x Depth
CAN	CAN-Bus
CM	Control Module
DIN	German Institute for Standardisation
DM	Drive Module
EN	European Standard
HS	Free space
LZ	Time of delivery
PG	Price group
PM	Power Module
net	Prices not discountable
RAL	Central European Colour Standard
RAS	Aspirating smoke detector
RM6	Relay Module
RWA	SHEV – smoke and heat exhaust ventilation
SM	Sensor Module
uP	Flash mounting
WM	Weather Module
WRG	Wind direction sensor

€	Euro
AC	Alternating current (50Hz / 60Hz)
DC	Direct current
I	Electric current
L	Length
ME	Module space unit (1 ME = 23 mm)
NO	Normal open switch
NC	Normal close switch
P	Electric power
U	Electric voltage
Um	Change over switch

SCALE UNI	TS
°C	Degree Celsius
А	Amps
Ah	Amp-hours
Kg	Kilogram
m	Metres
min	Minutes
mm	Millimeters
N	Newtons
S	Seconds
Pcs.	Pieces
V	Volts
PU	Packaging Units
Vpp	Residual ripple (Voltage Peak-Peak)
W	Watts

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General information about this product

- Product features EMB7300
- Software functions
- Application example of a complete system

To the information

To the

product



EMB7300 (2,5 A + 5 A) + accesories

- EMB7300 2,5 A 0101
- EMB7300 5 A 0101
- EMB7300 5 A 0102

■ Flush mounting housing EMB7300 2,5 A / 5 A

Accumulator holder



EMB7300 (10 A + 20 A) + accesories

- EMB7300 10 A 0101
- EMB7300 10 A 0102
- EMB7300 10 A 0204
- EMB7300 20 A 0102
- EMB7300 20 A 0204
- Wall fixing brackets IP54



To the

product



Accesories for EMB7300

- WR-SET TYPE 7x/8x Wind and Rain Sensor Set
- BI-K KNX Interface LZ1 / LZ6 / EMB7300

■ REL65

- 7xPSB
- USB-Cable
- Accumulators
- Software / License / Programming EMB7300
- Radio-HSE Break-glass unit main control panel (plastic)
- Receiver plug-in card radio SHEV
- Radio Antenna
- Replacement board EMB7300 2,5 A / 5 A / 10 A / 20 A
- Key + Lock 1D9







Product overview 03/2023





PRODUCT FEATURES EMB7300

- Controls 24 V DC drives for smoke and heat exhaust in case of fire and for natural ventilation
- Control panel compliant with prEN 12101-9 / ISO 21927-9
- Power supply compliant with EN 12101-10
- Low ripple voltage output (< 2 Vpp) compatible with all common drives
- 1 SHEV-Group output with 1 (optional 2) monitored ventilation line(s)
- Removable terminals for easy connection of signal lines
- Connection of electric motors, compressed gas generator and retention magnets
- 2 detector line inputs with line monitoring to connect:
 - Manual break-glass units (HSE)
 - Automatic smoke and heat detectors
- 1 Ventilation line input (optionally 2) with OPEN-STOP-CLOSE function
- 2 Plug-in-Module slots for signal monitoring and transduction (emergency open, fault)
- 1 Network port for connection and integration in building management systems (KNK)
- Direct connection input for wind and rain sensors
- Clear operating and display elements
- Extensive setting options of basic functions via "EMB compact" software
- Housing (optional) with integrated break-glass unit and ventilation button (2,5 A / 5 A)
- Lead frame usable for flash mounting (2,5 A / 5 A)
- Cable entry from above, below or behind of the housing
- Prepared for connection of backup batteries (72 hours)
- VdS certification no.: G 514001

For this product series, a Type III Environmental Product Declaration (EPD) was issued according to ISO 14025 and EN 15804.

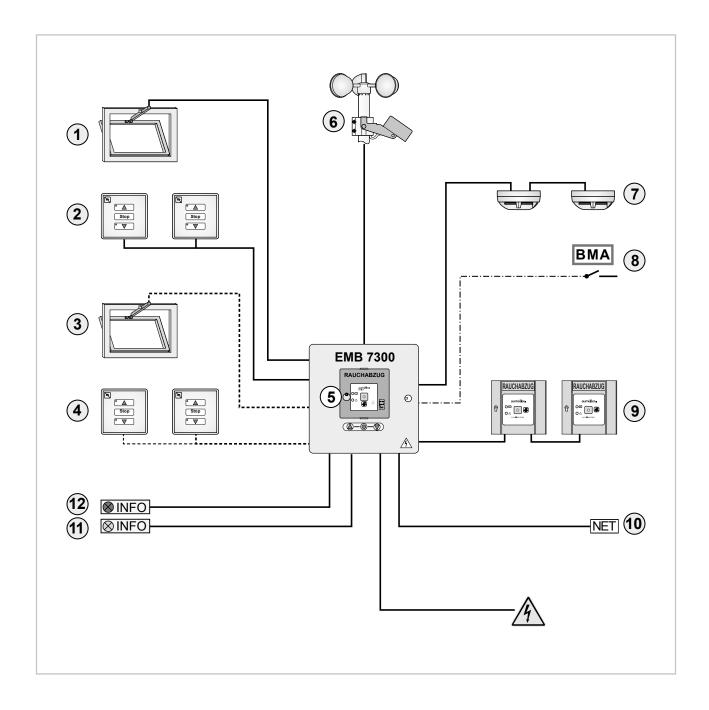
The LCA results of the different product types are listed at the end of this product catalogue.

The EPD documents can be viewed or downloaded from our homepage www.aumueller-gmbh.de.



SOFTWARE FUNCTIONS	Cton Jawa	Liera
Functions	Standard	License
Set ventilation inputs from dead-man to jog-switch mode (in OPEN and/or CLOSE direction)	V	V
Set failures of drive line monitoring as alarm signal	√	V
Disable alarm function caused by failures of detector line monitoring	√	√
Adjust switching threshold of wind sensor	√	√
Set drive run time and opening stroke limit for ventilation purpose	✓	√
Enable and set automatic time-controlled drive line closing mode for ventilation purpose		√
Enable drive line closing mode on primary power loss	✓	✓
Set accoustic or optical warning signals (additional hardware required)		✓
Display, save and print the status of the system	\checkmark	\checkmark
Firmware update	\checkmark	\checkmark
Set emergency close button from jog-switch mode to dead-man mode	\checkmark	\checkmark
Set next service and maintenance date (password protected)		✓
Set switch-on delay time for wind sensor		\checkmark
Set switch-off delay time for wind sensor		\checkmark
Disable retriggering of drive lines in alarm mode		\checkmark
Active / disable manual break-glass unit lines (HSE)		✓
Active / disable smoke detector lines		✓
Enable smoke detector line input to be controlled by fire alarm systems "FAS"		✓
Set automatic switch-off time for drive lines		✓
EMERGENCY-CLOSE button while the smoke detector is active / disable		\checkmark
Set drive running direction in alarm mode from open to close		✓
Set options of relay card REL65 (not in package)		\checkmark
Set alarm functions for faults caused by each individual drive line (only 2 drive line version)		✓
Reset switch positions to the status before the weather control were activated		\checkmark
Integration into digital networks with additional Plug-in Interface-Modules (KNX)		✓
Function natural ventilation contol unit		√
Setting operatingmodus (retention magnet / standard drive / pressure gas)		√
SHEV dead-man		√
Ventilation push button setting parallel operation		√
Maintenance timer adjust		√
OPEN case of line failure		√
Activate with Reset button EMERGENCY-CLOSE		√
Configure Content collective fault		•





CAPTION

- ① Output for drive line 1, 24 V DC for smoke and heat exhausting and natural ventilation
- ② Input for ventilation line 1 (max. 10 vent buttons)
- ① Output for drive line 2 (only for EMB 7300 5 A 0102; 10 A 0102; 20 A 0102)
- Input for ventilation line 2 (max. 10 vent buttons) (only for EMB 7300 5 A 0102; 10 A 0102; 20 A 0102)
- (9) Housing of control unit with or without integrated break-glass unit and ventilation button
- © Connections for wind and rain sensor (disabled in case of alarm and power loss)
- ① Input for smoke detectors (max. 10)
- Input for signal from external fire alarm system (alternative connection)
- 9 Input for break-glass units (HSE max. 10)
- © Port for network integration (requires additional module)
- ① Output for signal transduction 1 (Plug-in-Module REL65 required)
- @ Output for signal transduction 2 (Plug-in-Module REL65 required)
 - ---- only available for EMB 7300 5 A 0102; 10 A 0102; 20 A 0102



Part.-No.

EMB7300 2,5 A 0101 683020-0101

Application: Compact control unit for smoke and heat exhaust ventilation systems operating with 24 V DC voltage,

suitable for staircases.



TECHNICAL DATA (Rated values)

Operating voltage: 230 V AC (195 – 253 V AC, 50/60 Hz)

Max. power consumption: 115 W

Output voltage: 24 V DC (20 – 28 V DC / 2 Vpp)

Output current: 2,5 A

Ambient temperature range: $-5^{\circ}\text{C} \dots + 40^{\circ}\text{C}$

Protection rating: IP30

Housing: Surface mounting, steel sheet, RAL 7035 (light grey)

Dimensions (WxHxD): 225 x 285 x 122 mm

Connection terminals: 1,5 mm² / drive line: 4 mm² (rigid wire)

VdS certification no.: G 514001 (without or with orange SHEV button)

Motherboard: 1 SHEV group / 1 Vent groups

Feature/Equipment

- Further settings (e.g. maintenance period) only available with extra cost software license
- Cable entry from above / below / behind
- Optional housing for flash mounting
- Prepared for 2 maintanance-free back-up batteries 2x 12 V / 2,3 Ah (Part. Nr. 541000)

OPTIONS			
Version with break-glass unit (HSE)	and ventilation button on the front of the h	ousing PartNo.	
EMB7300 2,5 A 0101-T HSE red	(similar to RAL 3000)	683021-0101	
EMB7300 2,5 A 0101-T HSE yello	w (similar to RAL 1018)	683022-0101	
EMB7300 2,5 A 0101-T HSE grey	(similar to RAL 7035)	683023-0101	
EMB7300 2,5 A 0101-T HSE blue	(similar to RAL 5009)	683024-0101	
EMB7300 2,5 A 0101-T HSE oran VdS certii	ge (similar to RAL 2011) fication no.: G 514001	683025-0101	



Part.-No.

EMB7300 5 A 0101 683050-0101

Application: Compact control unit for smoke and heat exhaust ventilation systems operating with 24 V DC voltage,

suitable for staircases.



TECHNICAL DATA (Rated values)

Operating voltage: 230 V AC (195 – 253 V AC, 50/60 Hz)

Max. power consumption: 460 W

Output voltage: 24 V DC (20 – 28 V DC / 0,5 Vpp)

Output current: 5,0 A

Ambient temperature range: -5°C ... + 40°C

Protection rating: IP30

Housing: Surface mounting, steel sheet, RAL 7035 (light grey)

Dimensions (WxHxD): 225 x 285 x 122 mm

Connection terminals: 1,5 mm² / Drives: 6 mm² (rigid wire)

VdS certification no.: G 514001 (without or with orange SHEV button)

Motherboard: 1 SHEV group / 1 Vent group

Feature/Equipment

- Further settings (e.g. maintenance period) only available with extra cost software license
- Cable entry from above / below / behind
- Optional housing for flash mounting
- Prepared for 2 maintanance-free backup batteries 2x 12 V / 2,3 Ah (Part. Nr. 541000)

OPTIONS					
Available with brea kglas	ss unit and,ventilat	tion button on housing cover	PartNo.		
EMB7300 5 A 0101-T	HSE red	(similar to RAL 3000)	683051-0101		
EMB7300 5 A 0101-T	HSE yellow	(similar to RAL 1018)	683052-0101		
EMB7300 5 A 0101-T	HSE grey	(similar to RAL 7035)	683053-0101		
EMB7300 5 A 0101-T	HSE blue	(similar to RAL 5009)	683054-0101		
EMB7300 5 A 0101-T	HSE orange VdS certification	(similar to RAL 2011) n no.: G 514001	683055-0101		

EMB7300 5 A 0102 683050-0102

Application: Compact control unit for smoke and heat exhaust ventilation systems operating with 24 V DC voltage,

suitable for staircases.



Operating voltage: 230 V AC (195 – 253 V AC, 50/60 Hz) Max. power consumption: 460 W

Output voltage: 24 V DC (20 – 28 V DC / 0,5 Vpp)

Output current: 5,0 A

Ambient temperature range: -5°C ... + 40°C

Protection rating: IP30

Housing: Surface mounting, steel sheet, RAL 7035 (light grey)

Dimensions (WxHxD): 225 x 285 x 122 mm

Connection terminals: 1,5 mm² / Drives: 6 mm² (rigid wire)

VdS certification no.: G 514001

Motherboard: 1 SHEV group / 2 Vent groups

Feature/Equipment

- Further settings (e.g. maintenance period) only available with extra cost software license
- Cable entry from above / below / behind
- Optional housing for flash mounting

RAUCHABZUG

■ Prepared for 2 maintanance-free backup batteries 2x 12 V / 2,3 Ah (Part. Nr. 541000)



Part.-No.

Steel sheet

RAL 7035 (light grey)

254 x 314 x 96 mm

282 x 342 x 48 mm

160 mm with blade terminals 6,3 mm

Flush mounting housing EMB7300 2,5 A / 5 A 683111

Application: Housing for flush mouting of EMB7300 2,5 A or 5 A in its own housing 225 x 285 x 122 mm.



TECHNICAL DATA

Material: Colour:

Flush housing:

Dimensions (WxHxD): Plaster frame:

Dimensions (WxHxD): PE-Connecting cable:

Polystyrene plate: 240 x 302 x 93 mm (2,5 A)



Feature/Equipment

■ Plaster frame with 4x rounded head screws M3x6, 4x plain washer A4

Flush housing with 4x screw sleeve and safety nuts M5, 4x stainless steel mounting brackets 13 x 13 x 1 mm, 8x Tapping screws ST3, 5x6,5

Polystyrene plate to avoid damage during plastering of the wall

683250 **Accumulator holder**

Application: Holder to fix the Back-up batteries 12V / 2,3 Ah within the housing of control units.



TECHNICAL DATA

Material:

Colour:

Steel sheet

RAL 7035 (light grey)

2,5 A

5 A

Feature/Equipment

■ Suitable for EMB7300 2,5 A and EMB7300 5 A



Part.-No. 683010-0101

EMB7300 10 A 0101

Application: Compact control unit for smoke and heat exhaust ventilation systems operating with 24 V DC voltage,

suitable for staircases



TECHNICAL DATA (Rated values)

230 V AC (195 - 253 V AC, 50/60 Hz) Operating voltage:

Max. power consumption: 506 W

Output voltage: 24 V DC (20 - 28 V DC / 0,5 Vpp)

Output current: 10 A

Ambient temperature range: -5°C ... + 40°C

IP40 Protection rating:

IP54 with alternatively fixing brackets Surface mounting, steel sheet, RAL 7035 (light grey) Housing:

Dimensions (WxHxD): 400 x 300 x 150 mm

Connection terminals: 1,5 mm² / Drives: 6 mm² (rigid wire)

VdS certification no.: G 514001

Motherboard: 1 SHEV group / 1 Vent group

Feature/Equipment

- Further settings (e.g. maintenance period) only available with extra cost software license
- Cable entry from above / below
- Prepared for 2 maintanance-free backup batteries 2x 12 V / 7 Ah (Part. Nr. 542000)

EMB7300 10 A 0102 683010-0102

Application: Compact control unit for smoke and heat exhaust ventilation systems operating with 24 V DC voltage,

suitable for staircases.



Operating voltage: 230 V AC (195 - 253 V AC, 50/60 Hz)

506 W Max. power consumption:

Output voltage: 24 V DC (20 - 28 V DC / 0,5 Vpp)

Output current: 10 A

Ambient temperature range: -5°C ... + 40°C

IP40 Protection rating:

IP54 with alternatively fixing brackets Housing: Surface mounting, steel sheet, RAL 7035 (light grey)

Dimensions (WxHxD): 400 x 300 x 150 mm

1,5 mm² / Drives: 6 mm² (rigid wire) Connection terminals:

VdS certification no: G 514001

Motherboard: 1 SHEV group / 2 Vent groups

Feature/Equipment

- Further settings (e.g. maintenance period) only available with extra cost software license
- Cable entry from above / below
- Prepared for 2 maintanance-free backup batteries 2x 12 V / 7 Ah (Part. Nr. 542000)

EMB7300 10 A 0204 683010-0204

Application: Compact control unit for smoke and heat exhaust ventilation systems operating with 24 V DC voltage,

suitable for staircases.



230 V AC (195 - 253 V AC, 50/60 Hz) Operating voltage:

Max. power consumption: 506 W

Output voltage: 24 V DC (20 - 28 V DC / 0,5 Vpp)

Output current: 10 A

Ambient temperature range: -5°C ... + 40°C

Protection rating: IP40

IP54 with alternatively fixing brackets

Surface mounting, steel sheet, RAL 7035 (light grey) Housing: Dimensions (WxHxD): 400 x 500 x 200 mm

G 514001

Connection terminals: 1,5 mm² / Drives: 6 mm² (rigid wire)

2x Motherboard: 2 SHEV group / 4 Vent groups

Feature/Equipment

■ Further settings (e.g. maintenance period) only available with extra cost software license

VdS certification no.:

- Cable entry from above / below
- Prepared for 2 maintanance-free backup batteries 2x 12 V / 7 Ah (Part. Nr. 542000)



Part.-No.

EMB7300 20 A 0102 683220-0102

Application: Compact control unit for smoke and heat exhaust ventilation systems operating with 24 V DC voltage,

suitable for staircases.



TECHNICAL DATA (Rated values)

Operating voltage: 230 V AC (195 – 253 V AC, 50/60 Hz)

Max. power consumption: 805 W

Output voltage: 24 V DC (20 – 28 V DC / 0,5 Vpp)

Output current: 20 A

Ambient temperature range: -5°C ... + 40°C

Protection rating: IP40

IP54 with alternatively fixing brackets

Housing: Surface mounting, steel sheet, RAL 7035 (light grey)

Dimensions (WxHxD): 400 x 400 x 200 mm

Connection terminals: 1,5 mm² / Drives: 6 mm² (rigid wire)

VdS certification no.: G 514001

Motherboard: 1 SHEV group / 2 Vent groups

Feature/Equipment

- Further settings (e.g. maintenance period) only available with extra cost software license
- Cable entry from above / below
- Prepared for 2 maintanance-free backup batteries 2x 12 V / 7 Ah (Part. Nr. 542000)

EMB7300 20 A 0204 683220-0204

Application: Compact control unit for smoke and heat exhaust ventilation systems operating with 24 V DC voltage,

suitable for staircases.



TECHNICAL DATA (Rated values)

Operating voltage: 230 V AC (195 – 253 V AC, 50/60 Hz)

Max. power consumption: 805 W

Output voltage: 24 V DC (20 – 28 V DC / 0,5 Vpp)

Output current: 20 A

Ambient temperature range: -5°C ... + 40°C

Protection rating: IP40

IP54 with alternatively fixing brackets

Housing: Surface mounting, steel sheet, RAL 7035 (light grey)

Dimensions (WxHxD): 400 x 500 x 200 mm

Connection terminals: 1,5 mm² / Drives: 6 mm² (rigid wire)

VdS certification no.: G 514001

2x Motherboard: 2 SHEV group / 4 Vent groups

Feature/Equipment

- Further settings (e.g. maintenance period) only available with extra cost software license
- Cable entry from above / below
- Prepared for 2 maintanance-free backup batteries 2x 12 V / 12 Ah (Part. Nr. 542200)

			1	0 A 20 A
ACCESSO	RIES			
PartNo.		VE		
500001	Wall fixing brackets IP54	4 piece		



Part.-No.

WR-Set Type 7x/8x – Wind and Rain Sensor Set

482100

Application: Sensors for wind and rain to work with an evaluation unit WRAG2 or Typ IV, a WM Weather-Module or directly with a

SHEV control unit, for closing and blocking the natural ventilation under bad weather conditions.



TECHNICAL DATA (Rated values)

Rated voltage: 24 V DC (+/- 20%)

Rain sensor Type III – heated sensor surface, switch-off delay approx. 5 min. Contact: 1 Change-over switch, max. 48 V / 5A

Current consumption: <150 mA

Housing: Surface mounting, ABS black with stainless steel bracket

Dimensions (WxHxD): 100 x 85 x 172 mm

Connection cable: Non-halogen cable, approx. 4 m Volt free contac: 1 Change-over switch, max. 48 V / 1A Wind sensor Type III – Anemometer with 3 impact resistant wind cups (PA6)

Measuring principle: Pulse generator
Dimensions: 250 x 250 x 80 mm

Connection cable: Non-halogen cable, approx. 4 m

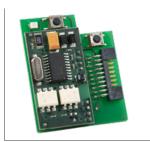
Feature/Equipment

 Set including: Wind sensor Type III (Part.-No. 482021), rain sensor Type III (Part.-No. 480210), clamp ring (Part.-No. 515950), aluminium bracket for pole or wall mounting (Part.-No. 482093), without mounting screws

BI-K - KNX Interface LZ1 / LZ6 / EMB 7300

683999

Application: Plug-in card for communication between the controllers Aumüller LZ1, LZ6 and EMB 7300 to the KNX BUS system.



TECHNICAL DATA

Rated voltage: 24 V DC Ambient temperature range: $-5^{\circ}\text{C} \dots + 40^{\circ}\text{C}$

Relative humidity: (no condensate) 5% ... 90%
Data points: up to 16 pieces per drive line

BUS current: 9m/

Housing: without (assembled PCB)

Dimensions (WxH): 51 x 42 mm

Connection terminals: 2 x 2 x 0,8 mm (KNX-BUS-Terminal)

Feature/Equipment

- Data of the control (e.g. drive position) are sent on the KNX-BUS.
- The controls received direct orders from the KNX-BUS (e.g. position information, weather data).
- The licensed version of the "EMB compact configurator" required for commissioning.



Part.-No.

REL65

Application: Plug-in card for EMB7300 with relay for forwarding the alarm or fault signal to external devices.



TECHNICAL DATA

Rated voltage: 24 V DC Ambient temperature range: $-5^{\circ}\text{C} \dots + 40^{\circ}\text{C}$ Housing: w/o (assembled PCB) Dimensions (WxHxD): 20 x 40 x 13 mm

Volt free contac: 1 Change-over switch, max. 48 V / 1A Connection terminals: 3x 1,5 mm² (rigid wire)

Feature/Equipment

Connector for plugging the relay card to the motherboard

VERSIONS	3			
PartNo.				
650200	Delivery in parcel	for customer self-installation		
650200-9	Module factory fitted	factory fitted and fully wired		

7xPSB

Application: Plug-in card for EMB7300 for connection and powering of external consumers with 24 V DC voltage.



TECHNICAL DATA

Rated voltage: 24 V DC
Ambient temperature range: -5°C ... + 40°C
Output current: **0,5 A**Housing: w/o (assembled PCB)

Dimensions (WxHxD): Wo (assembled PC 20 x 32 x 13 mm

Connection terminals: Screw terminals 1,5 mm² (rigid wire)
Voltage tap: 2 terminals 24 V DC backup voltage supplied
2 terminals 24 V DC mains voltage supplied

Feature/Equipment

- Connector for plugging the card to the motherboard
- Screw-type-terminal 4 x 1,5 mm²

NOTE: The overall power consumption of connected external consumers is to be considered!

VERSIONS	3			
PartNo.				
683256	Delivery in parcel	for customer self-installation		
683256-9	Module factory fitted	factory fitted and fully wired		



Part.-No.

USB-Cable 683253

Application: USB-Cable for connecting a PC with EMB7300 to configurate basic and special functions.



TECHNICAL DATA

USB-Standard: USB2 Cable length: 3 m

Feature/Equipment

■ Software "EMB-Compact" required!

Accumulators

Application: Maintenance of standby operation of SHEV control units over a period of 72 hours of main power supply loss.



TECHNICAL DATA

Type: Lead storage battery
Output voltage: 12 V DC
Capacity: see order data

Lifetime: 4 years (normal conditions)
Connections: 1,2 – 12 Ah: blade terminals 4,8 mm

17 – 38 Ah: screw terminals M5 Housing: plastic, impact- and break-resistent

Feature/Equipment

- Maintenance free operation, long lasting durability, hight charging performance and long-cycle stability
- Disposal due to local, national or international rules (WEEE)

NOTE: Always 2 batteries are required per control unit!

OPTIONS

for contro	l units	with	backup	power	suppl	у
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2,2/2,3 Ah, 12 V	1 Pcs.	541000	
7 Ah, 12 V	1 Pcs.	542000	

SOFTWARE / LICENSE / PROGRAMMING EMB7300					
Configuration software for extended scope of functions System Requirements: Microsoft® Windows 7 / Microsoft® Windows 10 64 Bit	PartNo.				
First software license (3 years)	683260				
Follow-up software license (3 years)	683261				
Configuration of customized functions at the factory for one Control Unit	683262				



RADIO

ORDER DATA

Part.-No.

Radio-HSE - Break-glass unit main control panel (plastic)

Application: Break-glass unit with indicators and buttons for the manual control of the emergency open and close functions of a SHEV group, for radio-connection in the **Aumüller** SHEV - Control Unit EMB 7300.



TECHNICAL DATA (Rated values)

Operating voltage: 3,6 V DC Ambient temperature range: $-5^{\circ}\text{C} \dots + 40^{\circ}\text{C}$

Housing: Surface mounting, plastic (ABS)

Dimensions (WxHxD) 130 x 130 x 32 mm

Protection rating: IP3

Display: Emergency OPEN, power, fault Control elements: Buttons for emergency OPEN / CLOSE

Feature / Equipment

- Lockable, glazed door (including key)
- Radio button
- 3,6 V Lithium battery
- The licensed version of the "EMB compact configurator" required for commissioning.

New

VERSION:	S			
Radio-HSE	plastic orange	(similar to RAL 2011)	528340	
Radio-HSE	plastic red	(similar to RAL 3000)	528341	
Radio-HSE	plastic yellow	(similar to RAL 1018)	528342	
Radio-HSE	plastic blue	(similar to RAL 5015)	528343	
Radio-HSE	plastic grey	(similar to RAL 7035)	528344	

OPTIONS		RADIO
Spare battery 3,6 V Lithium	545050	



Part.-No.

Receiver plug-in card radio SHEV 528738

Application: Plug-in card for radio communication between the **Aumüller** SHEV Control Unit EMB 7300 and **up to 10 Radio-HSE**.



TECHNICAL DATA

Rated voltage: 24 V DC Ambient temperature range: -5°C ... + 40°C

Relative humidity: (no condensate) 5% ... 90% Housing: without (assembled PCB)

Dimensions (WxH): 51 x 42 mm

Connection: SMA antenna connection

Feature/Equipment

■ Production of a bidirectional communication between Radio-HSE and Aumüller SHEV Control Unit EMB 7300.

■ The licensed version of the "EMB compact configurator" required - for commissioning.

Radio Antenna 528737

Application: Radio Antenna for radio communication between the Aumüller SHEV - Control Unit EMB7300 and up to 10 Radio-HSE

(Break-glass unit main control panel).

TECHNICAL DATA (Rated values)

Ambient temperature range: -5°C ... + 40°C

Relative humidity: (no condensate) 5% ... 90%

Dimensions (WxHxD) 34 x 265 x 82 mm
Connection: SMA antenna connection



Feature/Equipment

Production of a bidirectional communication between Radio-HSE and EMB 7300.

■ The licensed version of the "EMB compact configurator" required - for commissioning.

RADIO



Part.-No.

Replacement board EMB7300 2,5A 1LG

683029

Application: Replacement board, for Control Units EMB7300-2,5A-0101 with one motor line.



TECHNICAL DATA

Operating voltage: Output voltage: Output current: Vent groupe: 230 V AC (195 - 253 V AC, 50/60 Hz) 24 V DC (2 Vpp)

2,5 A

1

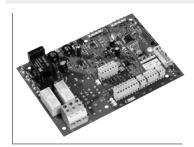
Feature/Equipment

■ Board assembled and checked

Replacement board EMB7300 5A / 10A 1LG

683059

Application: Replacement board, for Control Units EMB7300-5A-0101 and EMB7300-10A-0101 with one motor line.



TECHNICAL DATA

Operating voltage: Output voltage: Output current: Vent groupe: 230 V AC (195 - 253 V AC, 50/60 Hz)

24 V DC (2 Vpp) **5 / 10 A**

Feature/Equipment

■ Board assembled and checked

Replacement board EMB7300 5A / 10A / 20A 2LG

683229

Application:

Replacement board, for Control Units EMB7300-5A-0102, EMB7300-10A-0102 and EMB7300-20A-0102

with two motor lines.



TECHNICAL DATA

Operating voltage: Output voltage: Output current: Vent groupes: 230 V AC (195 - 253 V AC, 50/60 Hz)

24 V DC (2 Vpp) 5 / 10 / 20 A

Feature/Equipment

■ For Control Units 5A - 20A with two motor lines.



Part.-No.

Key 1D9 260010

Application: Replacement key for the housing of a Control Unit.



TECHNICAL DATA

Size: 1D9
Key: 1 piece

Feature/Equipment

■ For lock 1D9 straight bolt EMB7300

Lock 1D9, including two keys

260008

Application: Lock - with security cylinder and straight bolt - for the housing of a Control Unit.

Including two keys and a spring.



TECHNICAL DATA

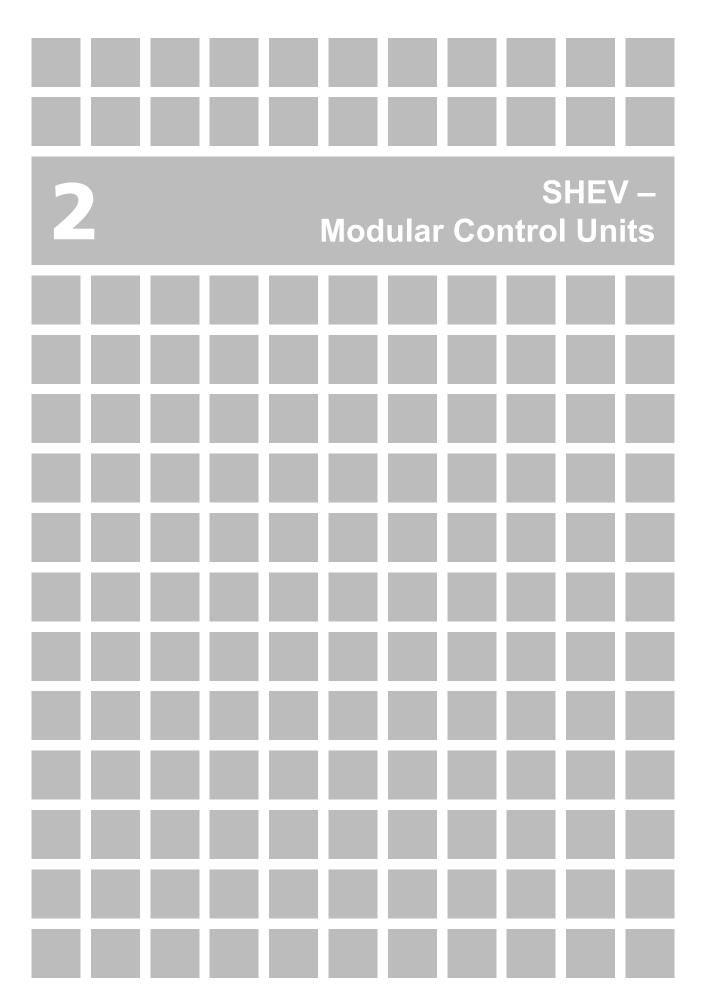
Size: 1D9
Security cylinder insert

Keys: 2 pieces

Feature/Equipment

■ Lock 1D9 straight bolt EMB7300

aumüller**•**







General information about this product

- Product features EMB8000+
- Scope of the configuration software
- Application example of a complete system

Basic versions expandable: Planning notes / expansion limitation / configuration / parameter of modules

To the information

To the

product

To the

product

To the

product



EMB8000+ Basic versions expandable

- EMB8000+ 5 A
- EMB8000+ 10 A
- EMB8000+ 24 A





EMB8000+ module

DM

- IM-K KNX
- + 230 V-DM Vent
- WM

DMX

CM

IDM

PM

SM

PME

■ RM6



EMB8000+ accesories



- Service

- Surge arrester Type 3
- Automatic circuit breaker
- Software licence EMB 8000+ Alpha
- Accumulators
- Relay interface + Wall fixing brackets
- Time switch
- Temperature sensor









03/2023 **Product overview** 2/1





For this product series, a Type III Environmental Product Declaration (EPD) was issued according to ISO 14025 and EN 15804.

The LCA results of the different product types are listed at the end of this product catalogue. The EPD documents can be viewed or downloaded from our homepage www.aumuellergmbh.de.

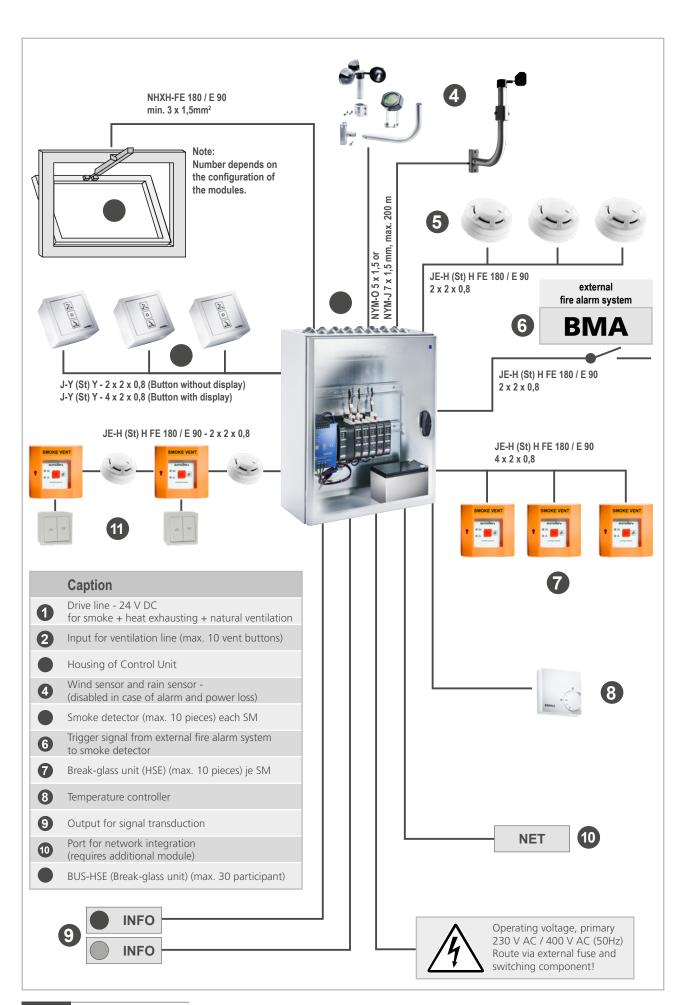
PRODUCT FEATURES EMB 8000+

- Modular control panel with digital bus technology and power supply for 24 V DC drives for use in smoke and heat exhausting ventilation (SHEV) and in controlled natural ventilation systems
- Control panel compliant with prEN 12101-9 / ISO 21927-9
- Power supply compliant with EN 12101-10 (except EMB8000+ 5A)
- Low residual ripple output voltage (<2 Vpp) compatible with all common drives
- Easy and space saving installation on 35-mm snap-on mounting rail with many combination options
- Easy configuration of SHEV and ventilation groups by selective lining up of the modules
- Control- and Sensor-Module with 3 monitored detector lines with different priorities for connecting with:
 - Manual break-glass unit (HSE)
 - Automatic smoke and heat detectors
 - Control signal from fire alarm system (FAS)
- Drive-Module with monitored line outputs for connection of drives up to 20 A
- Relay-Module for the evaluation and transsmision of events (emergency open signal, fault signal, feedback signals)
- Weather-Module for connection with wind speed sensors, wind direction sensors and rain sensors
- Network-Modules for connection and integration with building management systems (CAN, KNX)
- All ventilation button inputs with OPEN-STOP-CLOSE function and adjustable priorities
- Clear operating and display elements
- Extensive settings of the basic functions via software offered by download free of charge
- Special functions programmable via extra costs software license as in the following:
 - Service and maintenance intervals
 - Changes of priorities, switching-thresholds and switch-off times
 - Deactivation of the detector lines or of their monitoring
 - Control of the alarm functions by a volt-free contact of the fire alarm system (FAS)
- Network integration
- Steel sheet housing, protection class IP40 / IP54 alternatively available with wall fixing brackets, cable exit from above
- Prepared for connection of backup batteries (72 hours)
- VdS certification no.: G 512005 (except EMB8000+ 5A)
- $\hfill \blacksquare$ In the state of delivery, the interconnection of SHEV and ventilation groups can be configured
 - by targeted lining up of the modules without software.
- System components for individual assembly consisting of functional basic control units each with one SHEV and one ventilation group, as well as a variety of modules and components that can be ordered either as factory-installed or for customer-side yourself installation.
- Software licences for enabling and configuration of complex integrated special functions as well as for the interconnection
 of multiple control units to a network with higher-ranking funktions for SHEV, ventilation and weather groups
- Fully assembled and configured at the factory or by self-expansion.
- Fully assembled and configured from the factory or for self-removal
- Individual customization through extensive software options

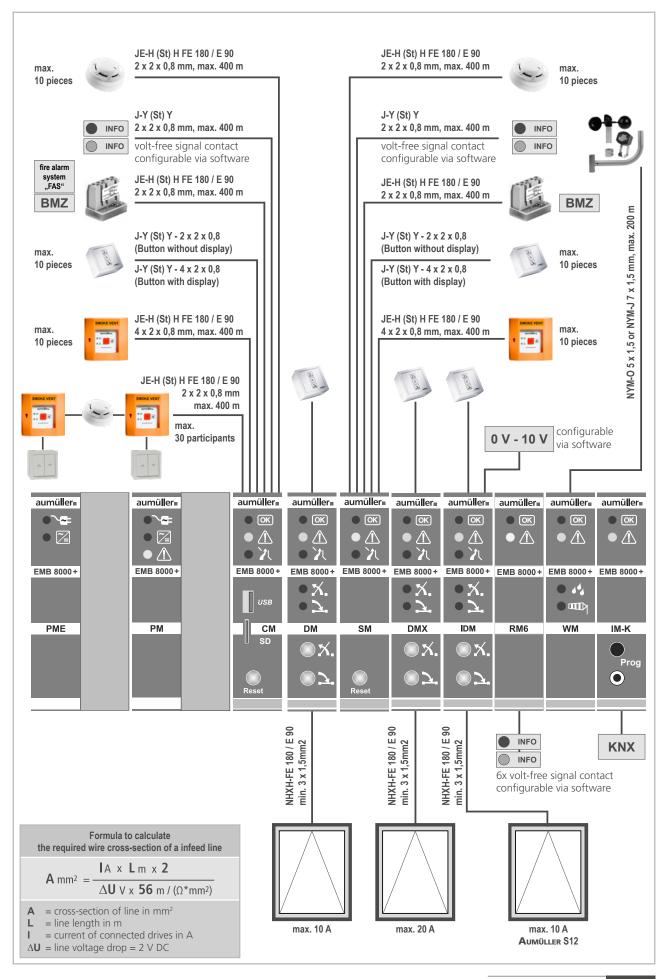


Functions	Standard	Lizenz
Load configuration / Safe / Safe as	✓	✓
View, save and print system status	\checkmark	\checkmark
Set thresholds and on-off delay of wind sensor		\checkmark
Create PDF of the configuration	\checkmark	\checkmark
System configuration / Load settings / Save settings	✓	✓
Read RealTime LOG-Data	\checkmark	\checkmark
Set Password for control unit		\checkmark
Edit RealTime LOG-Data		\checkmark
Firmware update		\checkmark
Configure switching thresholds and on-off delay of the wind sensor		\checkmark
Configure switching thresholds of wind direction sensor		\checkmark
System time synchronisation / updating		✓
Backup battery monitoring: Performance and fault indications (active, windows OPEN / CLOSE)		√
Set backup battery type and charging characteristics (temperature dependent / constant)		\checkmark
Power supply loss: Performance and fault indication (Energy saving mode, CLOSE, ventilation mode)		✓
Ventilation push button in dead-man or jog-switch mode (OPEN or/and CLOSE direction)		\checkmark
Ventilation push button as one rocker push-button (OPEN/STOP or CLOSE/STOP with one button)		\checkmark
Set step-automatic in OPEN-direction (Automatic enabled / Time setting)		\checkmark
Enable reset of smoke detector lines with emergency-CLOSE button		\checkmark
Enable control of smoke detector line by fire alarm system "FAS"		\checkmark
Disable alarms caused by detector line monitoring failures (Automatic and manual detectors)		\checkmark
Disable fault detection of detector lines (Automatic and manual detectors)		\checkmark
Set functions of PM, CM and SM relay contact		\checkmark
Set service and maintenance interval and system behaviour		\checkmark
Set drive line mode for use with motors, magnets or gas pressure generators		\checkmark
Disable retriggering of drive line in alarm mode		\checkmark
Set switch-off time of drive lines		\checkmark
Enable and set automatic time-controlled drive line closing mode for ventilation purpose		\checkmark
Enable drive closing mode on primary power loss		\checkmark
Set drive run time and opening stroke limit for ventilation purpose		\checkmark
Set failures of drive line monitoring as alarm signal		\checkmark
Set drive running direction in alarm mode from open to close		✓
Set signal input of DM drive line (feedback input / inhibiting input)		✓
Set wind direction dependent OPENING / CLOSING of drive lines		√
Reset switch positions to the status before the weather control were activated		✓
Set emergency close button from jog-switch mode to dead-man mode		√
Set functions of RM6 relays		✓
Set assignment of detector and drive lines to SHEV, ventilation and weather groups		✓
nterconnection of several control units to a network with higher-ranking functions		\checkmark
ntegration into digital networks (CAN, KNX) (requires additional modules)		\checkmark











IMPORTANT NOTES

The modular design of EMB 8000+ in combination which digital network technology make it possible for our customers to size, assemble and configures the control units by themselves.

For this **Aumüller** is providing the required hardware and software.

The minimum equipment of a fully functional Control Unit:

- 1x Switch mode power supply PS 5 A up to 24 A the installation up to 3 identical power supplies up to a maximum of 72 A is possible
- 2x Accumulators 12 V DC from 7 Ah to 38 Ah to ensure the emergency power supply for 72 hours
- 1x Power-Module PM for the charging control of accumulators – completed with up to 2 Power-Module-Extensions PME
- 1x Control-Module CM with 3 detector input lines for automatic and manual smoke detectors and 1 ventilation button input line
- 1x Drive-Module DM, IDM or DMX for connection of drives with a total current consumption of 10 A respectively 20 A and 1 ventilation button input line

The control units on the following pages are intended for individual configuration and are prepared for 1 SHEV group with 1 ventilation line (10 A or 20 A) and are preprogrammed for basic functions.

Aumüller does not assume any liability for further changes and configurations of these control units.

PLANNING NOTES

The build-in modules of EMB 8000+ are connected to each other and communicate via the digital network bus. On delivery respectively as long as the delivered software configuration is not changed, the modules are self-learning. SHEV groups can be easily and felxibel configured by selective lining up of the modules. A new SHEV group is created by adding a Sensor-Module (SM) into the row. All following Drive-Modules (DM / DMX) belong to the new SHEV group.

In the Control Units with several switch mode power supplies in one housing (48 A and 72 A), the interconnection of Drive-Modules (DM / DMX) and their total current consumption has to be adapted to the current consumption of the individual switch mode power supply at which they are connected. This can be done by replugging the power supply of the modules. The SHEV group to which the DM / DMX belongs is irrelevant. To ensure the optimum of safety in case of a failure of a switch mode power supply, it is recommended to power the DM/DMX of one SHEV group from only one switch mode power supply. The maximum switching capacity of the DM-modules is to be noted.

Due to the compact design of the modules, the module connection terminals for peripheral devices are limited to 1 mm² and for drive lines to 2,5 mm² rigid wire conductors. The cross sections of the wires between control unit and drives depend on the cable length, the current consumption as well as the voltage drop on the line. A 35-mm snap-on mounting rail is provided inside the housing, for additional bigger connection terminals if the required cable cross section is larger than the module-own connection terminals. Suitable connection terminals will be found under "accessories". The cross sections of the cables may be calculated with the formula indicated in chart 5.



EXPANSION LIMITATIONS / SYSTEM LIMITS

The following key data must be taken into account when dimensioning SHEV Control Units:

- Number of smoke detectors per CM / SM 10 piece
- Number of break-glass units per CM / SM 10 piece
- Number of digital trigger units per CM 30 piece
- Number of smoke detectors per control unit 60 piece
- Number of break-glass units per control unit 60 piece
- Own power consumption per Control Unit (see chart 3 at the following page)
- Accumulator capacity / max. power consumption per Control Unit (see chart 3 at the following page)
- Dimensions of housing
- Cable entries

All values in the tables refer to the maximum assignment of the module inputs / outputs. The current values are given for maintaining the emergency power supply over a period of 72 hours. Other calculation bases on request.

The sum of the self-consumption of all modules in a Control Unit must not exceed the maximum permissible current of the Control Unit. To calculate the total power consumption, the individual consumption of the installed modules must be added.

The details of the outer diameter of cables refer to the cable types common in Germany. The wire cross-sections are given in mm². To maintain the electrical protection class of the Control Unit housing, only one cable is permitted per cable entry.

For checking purposes, the total number of cables required must be determined in accordance with Table 1 and coordinated with the number of cable entries in the Control Units from Table 4.

Due to the hardware and software, the EMB8000 + is limited by the following points. Configuration using the software is guaranteed within these limits.

A maximum of 50 modules per Control Unit (including CM, excluding PM and PMEs).
 The following maximum number of modules of the same type are supported per control center (in the network).

Module	Maximum per Control Unit	Maximum per network
PME	2	60
PM	1	30
CM+	1	30
SM	20	570
DM	40	570
DMX	10	300
IDM	30	300
230 V DM Vent	20	570
RM6	20	570
WM	1	2
IMK	2	5

- 2. A maximum of 30 Conrol Unit in the network.
- 3. A maximum of 600 modules in the network (including CMs, excluding PMs and PMEs) e.g.: 30 Control Units with 20 modules or 12 Control Units with 50 modules.
- 4. 150 Can actuators (*) are supported without blocking the triggering CMs. Each additional Can actuator results in a recording delay of 9 ms.
 - (*) Can actuator is an actuator in another Control
 Unit than the one in which the sensor is located.

CONFIGURATION + PARAMETERIZATION

The basic configuration software for EMB 8000+ Control Units is available download on (free of charge for):

www.aumueller-gmbh.de/downloads/software/ . . .

For the configuration of special functions or integration of Control Units into networks, a software license (with extra costs) is required.



CHART 1: PARAMETER OF MODULES EMB 8000+												
Features					Cables	Cables for inputs and outputs						
Module	Module width [mm]	Module units [ME]	Internal current consumption [mA]	Cable entries when using all inputs/outputs [pcs.]	Smoke detectors, FAS	Manual detectors Break-glass units	Drive line	Ventilation button with display	Ventilation button w/o display, other inputs	Volt free contact, drive feedback signal	Wind/Rain/Wind direction	Power supply
PM	46	2	16,0	1								1
PME	46	2	0,0	0								
CM+	23	1	34,1	5	2	1			1	1		
SM	23	1	12,6	5	2	1			1	1		
DM	23	1	5,3	3			1	1		1		
230 V DM	23	1	7,0	3			1	1		1		
DMX	46	2	5,3	3			1	1		1		
IDM	23	1	6,0	5			1	1		1		
RM6	23	1	5,3	1						1–6		
IM-K	23	1	6,0	10								
WM	23	1	13,0	4					2	1	1	
Rec. Number (w/o protective		onductor)			4	8	4	8	4	4	7	3

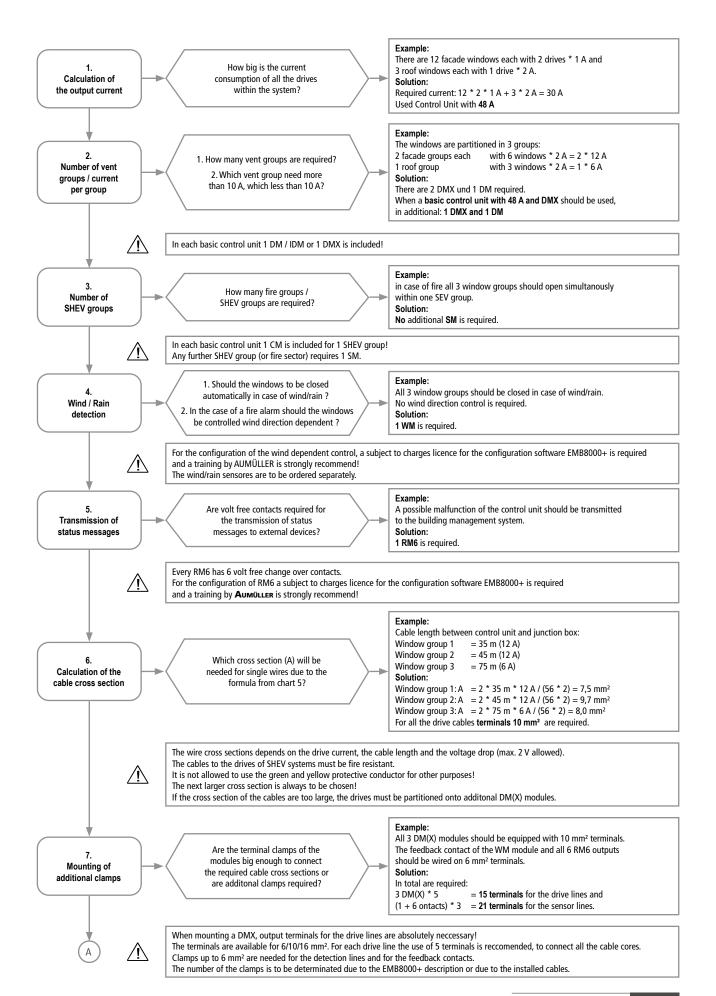
CHART 2: INTERNAL CURRENT CONSUMPTION OF BACKUP BATTERY POWERD DETECTORS						
Break-glass main unit	HSE	1,2 mA				
Break-glass seccondary unit	HSE-N	0,0 mA				
Smoke detector	ORM	0,1 mA				
Wind direction sensor	WRG	7,1 mA				
BUS Break-glass main unit	BUS-HSE	2,8 mA				
BUS Smoke detector	BUS-RM	1,0 mA				

CHART 3: MAXIMUM CURRENT CONSUMPTION PER CONTROL UNIT							
PS / Battery	7 Ah	12 Ah	17 Ah	24 Ah	38 Ah		
10 A	\times	120 mA	140 mA	240 mA	350 mA		
24 A	\times	70 mA	120 mA	200 mA	300 mA		
48 A			80 mA	170 mA	300 mA		
72 A	><	\sim	><	100 mA	300 mA		

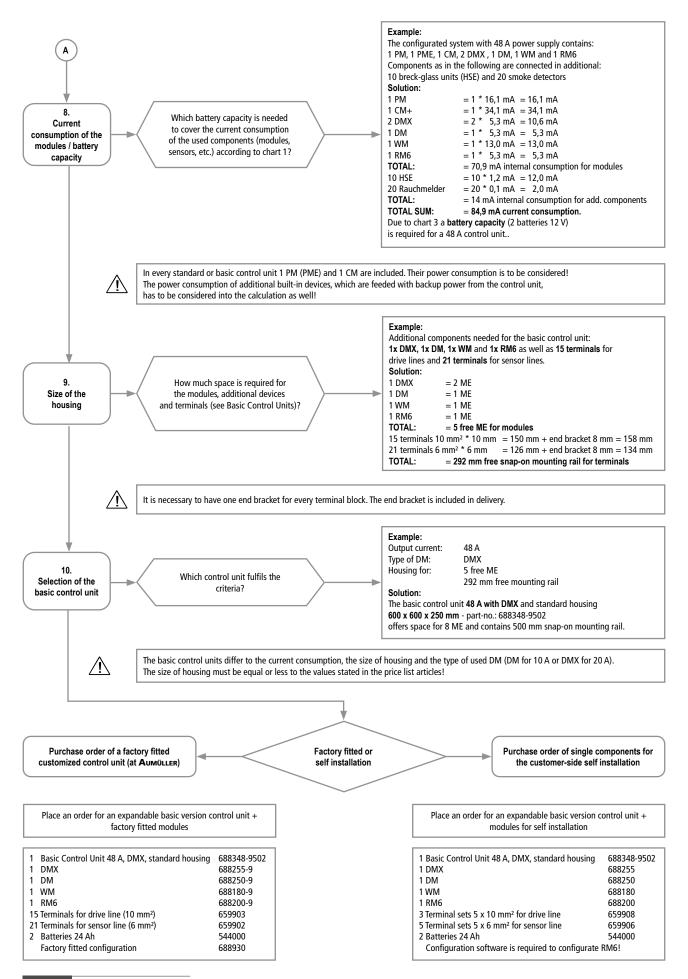
CHART 4: DIMENSIONS OF CONNECTION TERMINALS (pull spring feed through terminal blocks)							
Terminal size [mm] 6 mm ² 10 mm ² 16 mm ² End brack							
Cross section of the wire (rigid wire)	0,13-6 mm ²	2,5–10 mm ²	4–16 mm ²	\sim			
External width (feed through terminal)	6 mm	10 mm	12 mm	8 mm			
Width of set with 5 terminals + end bracket	38 mm	58 mm	\sim	<u> </u>			

CHART	CHART 5: CALCULATION OF DRIVE CABLES					
$A = 2 * L * I / (56 * \Delta U)$						
А	Cross section of wire [mm²]					
L	Length of the line [m]					
1	Current of the drives [A]					
ΔU	Voltage drop on the line [V] = max. 2 V					











5 A

ORDER DATA

EMB 8000+ 5 A (400 x 500 x 200 mm)

Application: Expandable basic version of modular control unit EMB 8000+, factory fitted and fully wired for customer-side self-configuration.



TECHNICAL DATA (Rated values)

Operating voltage: 230 V AC (195 – 253 V AC, 50/60 Hz)

Max. power consumption: 322 W

Output voltage: 24 V DC (20 – 28 V DC / 0,5 Vpp)

Output current: 5 A

Housing: surface mounting, steel sheet, RAL 7035 (light grey)

Dimensions (WxHxD): 400 x 500 x 200 mm Delivery state:

SHEV groups: Vent groups:

Module equipment: PM, CM, DM

Prepared for batteries: max. 2 x 12 V / 12 Ah (Capacity acc. to equipment)

Features: The installer of the control unit has to examine and to respect on its sole responsibility

that the total current consumption of the internal and external devices, the number of the used modules and cable entries match with the battery capacity

and the system limitations.

VERSIONS								
PartNo.	equip module	free module units	free space					
688305-9501	PM, CM, DM	ME 8	HS 300 mm					
688305-9503	PM, CM, IDM	ME 8	HS 300 mm					

EMB 8000+ 5 A (600 x 600 x 250 mm)

Application: Expandable basic version of modular control unit EMB 8000+, factory fitted and fully wired for customer-side self-configuration.



TECHNICAL DATA (Rated values)

Operating voltage: 230 V AC (195 – 253 V AC, 50/60 Hz)

Max. power consumption: 322 W

Output voltage: 24 V DC (20 – 28 V DC / 0,5 Vpp)

Output current: 5 A

Connections and functions: depends on extension

Housing: surface mounting, steel sheet, RAL 7035 (light grey)

Dimensions (WxHxD): **600 x 600 x 250 mm**

Delivery state:

SHEV groups: 1
Vent groups: 1

Prepared for batteries: max. 2x 12 V / 12 Ah (Capacity acc. to equipment)

Features: The installer of the control unit has to examine and to respect on its sole responsibility

that the total current consumption of the internal and external devices,

the number of the used modules and cable entries match with the battery capacity and the system limitations.

VERSIONS							
PartNo.	equip module	free module units	free space				
688305-9601	PM, CM, DM	ME 19	HS 500 mm				
688305-9603	PM, CM, IDM	ME 19	HS 500 mm				

10 A



ORDER DATA

EMB 8000+ 10 A (400 x 500 x 200 mm)

Application: Expandable basic version of modular control unit EMB 8000+, factory fitted and fully wired for customer-side self-configuration.



TECHNICAL DATA (Rated values)

Operating voltage: 230 V AC (195 – 253 V AC, 50/60 Hz)

Max. power consumption: 506 W

Output voltage: 24 V DC (20 – 28 V DC / 0,5 Vpp)

Output current: 10 A

Connections and functions: depends on extension

Housing: surface mounting, steel sheet, RAL 7035 (light grey)

Dimensions (WxHxD): 400 x 500 x 200 mm

Delivery state:

SHEV groups: 1
Vent groups: 1

Prepared for batteries: max. 2x 12 V / 12 Ah (Capacity acc. to equipment)

Features: The installer of the control unit has to examine and to respect on its sole responsibility

that the total current consumption of the internal and external devices, the number of the used modules and cable entries match with the battery capacity

and the system limitations.

VERSIONS						
PartNo.	equip module	free module units	free space			
688310-9501	PM, CM, DM	ME 7	HS 300 mm			
688310-9503	PM, CM, IDM	ME 7	HS 300 mm			

EMB 8000+ 10 A (600 x 600 x 250 mm)

Application: Expandable basic version of modular control unit EMB 8000+, factory fitted and fully wired for customer-side self-configuration.



TECHNICAL DATA (Rated values)

Operating voltage: 230 V AC (195 – 253 V AC, 50/60 Hz)

Max. power consumption: 506 W

Output voltage: 24 V DC (20 – 28 V DC / 0,5 Vpp)

Output current: 10 A

Connections and functions: depends on extension

Housing: surface mounting, steel sheet, RAL 7035 (light grey)

Dimensions (WxHxD): **600 x 600 x 250 mm**

Delivery state:

SHEV groups: 1
Vent groups: 1

Prepared for batteries: max. 2x 12 V / 38 Ah (Capacity acc. to equipment)

Features: The installer of the control unit has to examine and to respect on its sole responsibility

that the total current consumption of the internal and external devices, the number of the used modules and cable entries match with the battery capacity

and the system limitations.

VERSIONS						
PartNo.	equip module	free module units	free space			
688310-9601	PM, CM, DM	ME 19	HS 500 mm			
688310-9603	PM, CM, IDM	ME 19	HS 500 mm			



24 A

ORDER DATA

EMB 8000+ 24 A (600 x 600 x 250 mm)

Application: Expandable basic version of modular control unit EMB 8000+, factory fitted and fully wired for customer-side self-configuration.



TECHNICAL DATA (Rated values)

Operating voltage: 230 V AC (195 – 253 V AC, 50/60 Hz)

Max. power consumption: 805 W

Output voltage: 24 V DC (20 – 28 V DC / 0,5 Vpp)

Output current: 24 A

Connections and functions: depends on extension

Housing: surface mounting, steel sheet, RAL 7035 (light grey)

Dimensions (WxHxD): **600 x 600 x 250 mm**

Delivery state:

SHEV groups: 1 Vent groups: 1

Prepared for batteries: max. 2x 12 V / 38 Ah (Capacity acc. to equipment)

Features: The installer of the control unit has to examine and to respect on its sole responsibility

that the total current consumption of the internal and external devices,

the number of the used modules and cable entries match with the battery capacity and the system limitations.

tne ni

VERSIONS						
PartNo.	equip module	free module units	free space			
688324-9501	PM, CM, DM	ME 19	HS 500 mm			
688324-9502	PM, CM, DMX	ME 18	HS 500 mm			
688324-9503	PM, CM, IDM	ME 19	HS 500 mm			

EMB 8000+ 24 A (600 x 800 x 250 mm)

Application: Expandable basic version of modular control unit EMB 8000+, factory fitted and fully wired for customer-side self-configuration.



TECHNICAL DATA (Rated values)

Operating voltage: 230 V AC (195 – 253 V AC, 50/60 Hz)

Max. power consumption: 805 W

Output voltage: 24 V DC (20 – 28 V DC / 0,5 Vpp)

Output current: 24 A

Connections and functions: depends on extension

Housing: surface mounting, steel sheet, RAL 7035 (light grey)

Dimensions (WxHxD): **600 x 800 x 250 mm**

Delivery state:

SHEV groups:
Vent groups:

Prepared for batteries: max. 2x 12 V / 38 Ah (Capacity acc. to equipment)

Features: The installer of the control unit has to examine and to respect on its sole responsibility that the total current consumption of the internal and external devices,

the number of the used modules and cable entries match with the battery capacity

and the system limitations.

VERSIONS						
PartNo.	equip module	free module units	free space			
688324-9601	PM, CM, DM	ME 26	HS 500 mm			
688324-9602	PM, CM, DMX	ME 25	HS 500 mm			
688324-9603	PM, CM, IDM	ME 26	HS 500 mm			

48 A



ORDER DATA

EMB 8000+ 48 A (600 x 600 x 250 mm)

Application: Expandable basic version of modular control unit EMB 8000+, factory fitted and fully wired for customer-side self-configuration.



TECHNICAL DATA (Rated values)

Operating voltage: 230 V AC (195 – 253 V AC, 50/60 Hz)

Max. power consumption: 1610 W

Output voltage: 24 V DC (20 – 28 V DC / 0,5 Vpp)

Output current: 48 A

Connections and functions: depends on extension

Housing: surface mounting, steel sheet, RAL 7035 (light grey)

Dimensions (WxHxD): **600 x 600 x 250 mm**

Delivery state:

SHEV groups: 1
Vent groups: 1

Prepared for batteries: max. 2x 12 V / 38 Ah (Capacity acc. to equipment)

Features: The installer of the control unit has to examine and to respect on its sole responsibility

that the total current consumption of the internal and external devices, the number of the used modules and cable entries match with the battery capacity

and the system limitations.

VERSIONS						
PartNo.	equip module	free module units	free space			
688348-9501	PM, PME, CM, DM	ME 9	HS 500 mm			
688348-9502	PM, PME, CM, DMX	ME 8	HS 500 mm			
688348-9503	PM, PME, CM, IDM	ME 9	HS 500 mm			

EMB 8000+ 48 A (600 x 800 x 250 mm)

Application: Expandable basic version of modular control unit EMB 8000+, factory fitted and fully wired for customer-side self-configuration.



TECHNICAL DATA (Rated values)

Operating voltage: 230 V AC (195 – 253 V AC, 50/60 Hz)

Max. power consumption: 1610 W

Output voltage: 24 V DC (20 – 28 V DC / 0,5 Vpp)

Output current: 48 A

Connections and functions: depends on extension

Housing: surface mounting, steel sheet, RAL 7035 (light grey)

Dimensions (WxHxD): **600 x 800 x 250 mm**

Delivery state:

SHEV groups: 1 Vent groups: 1

Prepared for batteries: max. 2x 12 V / 38 Ah (Capacity acc. to equipment)

Features: The installer of the control unit has to examine and to respect on its sole responsibility that the total current consumption of the internal and external devices,

the number of the used modules and cable entries match with the battery capacity

and the system limitations.

VERSIONS						
PartNo.	equip module	free module units	free space			
688348-9601	PM, PME, CM, DM	ME 17	HS 500 mm			
688348-9602	PM, PME, CM, DMX	ME 16	HS 500 mm			
688348-9603	PM, PME, CM, IDM	ME 17	HS 500 mm			



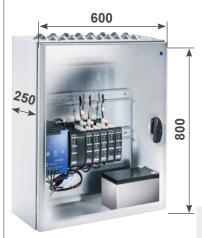
72 A

72 A

ORDER DATA

EMB 8000+ 72 A (600 x 800 x 250 mm)

Application: Expandable basic version of modular control unit EMB 8000+, factory fitted and fully wired for customer-side self-configuration.



TECHNICAL DATA (Rated values)

Operating voltage: 230 V AC (195 – 253 V AC, 50/60 Hz)

Max. power consumption: 2415 W

Output voltage: 24 V DC (20 – 28 V DC / 0,5 Vpp)

Output current: 72 A

Connections and functions: depends on extension

Housing: surface mounting, steel sheet, RAL 7035 (light grey)

Dimensions (WxHxD): **600 x 800 x 250 mm**

Delivery state:

SHEV groups: 1 Vent groups: 1

Prepared for batteries: max. 2x 12 V / 38 Ah (Capacity acc. to equipment)

Features: The installer of the control unit has to examine and to respect on its sole responsibility

that the total current consumption of the internal and external devices,

the number of the used modules and cable entries match with the battery capacity

and the system limitations.

VERSIONS						
PartNo.	equip module	free module units	free space			
688372-9501	PM, 2x PME, CM, DM	ME 15	HS 500 mm			
688372-9502	PM, 2x PME, CM, DMX	ME 14	HS 500 mm			
688372-9503	PM, 2x PME, CM, IDM	ME 15	HS 500 mm			

EMB 8000+ 72 A (800 x 800 x 250 mm)

Application: Expandable basic version of modular control unit EMB 8000+, factory fitted and fully wired for customer-side self-configuration.



TECHNICAL DATA (Rated values)

Operating voltage: 230 V AC (195 – 253 V AC, 50/60 Hz)

Max. power consumption: 2415 W

Output voltage: 24 V DC (20 – 28 V DC / 0,5 Vpp)

Output current: 72 A

Connections and functions: depends on extension

Housing: surface mounting, steel sheet, RAL 7035 (light grey)

Dimensions (WxHxD): **800 x 800 x 250 mm**

Delivery state:

SHEV groups: Vent groups:

Prepared for batteries: max. 2x 12 V / 38 Ah (Capacity acc. to equipment)

Features: The installer of the control unit has to examine and to respect on its sole responsibility

that the total current consumption of the internal and external devices, the number of the used modules and cable entries match with the battery capacity

and the system limitations.

VERSIONS	VERSIONS						
PartNo.	equip module	free module units	free space				
688372-9601	PM, 2x PME, CM, DM	ME 24	HS 700 mm				
688372-9602	PM, 2x PME, CM, DMX	ME 23	HS 700 mm				
688372-9603	PM, 2x PME, CM, IDM	ME 24	HS 700 mm				

96 A

96 A



ORDER DATA

EMB 8000+ 96 A (800 x 800 x 250 mm)

Application: Expandable basic version of modular control unit EMB 8000+, factory fitted and fully wired for customer-side self-configuration.



TECHNICAL DATA (Rated values)

400 V AC (50/60 Hz) Operating voltage: 3 outer conductor

3220 W Max. power consumption:

24 V DC (20 - 28 V DC / 0,5 Vpp) Output voltage:

Output current: 96 A

Connections and functions: depends on extension

Housing: surface mounting, steel sheet, RAL 7035 (light grey) Dimensions (WxHxD):

800 x 800 x 250 mm

Delivery state:

SHEV groups: 2

Vent groups: 12 Prepared for batteries: max. 4x 12 V / 38 Ah (Capacity acc. to equipment)

Features: The installer of the control unit has to examine and to respect on its sole responsibility

that the total current consumption of the internal and external devices,

the number of the used modules and cable entries match with the battery capacity

and the system limitations.

VERSIONS							
PartNo.	equip module	free module units	free space				
688396-9501	2x PM, 2x PME, 2x CM, 2x DM	ME 10	HS 700 mm				
688396-9502	2x PM, 2x PME, 2x CM, 2x DMX	ME 9	HS 700 mm				
688396-9503	2x PM, 2x PME, 2x CM, 2x IDM	ME 10	HS 700 mm				

EMB 8000+ 96 A (800 x 1000 x 250 mm)

Application: Expandable basic version of modular control unit EMB 8000+, factory fitted and fully wired for customer-side self-configuration.



TECHNICAL DATA (Rated values)

400 V AC (50/60 Hz) Operating voltage: 3 outer conductor

Max. power consumption: 3220 W

24 V DC (20 - 28 V DC / 0,5 Vpp) Output voltage:

Output current: 96 A

Connections and functions: depends on extension

surface mounting, steel sheet, RAL 7035 (light grey) Housing:

Dimensions (WxHxD): 800 x 1000 x 250 mm

Delivery state:

SHEV groups: 2 Vent groups:

Prepared for batteries: max. 4x 12 V / 38 Ah (Capacity acc. to equipment)

The installer of the control unit has to examine and to respect on its sole responsibility that the total current consumption of the internal and external devices,

the number of the used modules and cable entries match with the battery capacity

and the system limitations.

VERSIONS							
PartNo.	equip module	free module units	free space				
688396-9601	2x PM, 2x PME, 2x CM, 2x DM	ME 17	HS 1000 mm				
688396-9602	2x PM, 2x PME, 2x CM, 2x DMX	ME 16	HS 1000 mm				
688396-9603	2x PM, 2x PME, 2x CM, 2x IDM	ME 17	HS 1000 mm				



10 A

ORDER DATA

DM - Drive-Module

Application: For the controlling of drives, gas-pressure generators and magnetic locks.



TECHNICAL DATA (Rated values)

Operating voltage: 24 V DC

Output voltage: 24 V DC (20 – 28 V DC / 0,5 Vpp)

Internal consumption: 5,3 mA
Output current: 10 A

Housing (WxHxD): 100 x 120 x 22,5 mm, ABS, black

Module units: 1 ME

Inputs: Vent. buttons (max. 10 pcs), feedback contact OPEN/CLOSE Outputs: Drive line (gas-pressure generators / magnetic locks)
Display: Power, fault, alarm, running direction OPEN / CLOSE

Control elements: Front push button: OPEN / CLOSE

Connections: Plug-in terminals 1 mm² (rigid wire), Drives: 2,5 mm²,

Blade terminals 6,3 mm: Power supply, socket and plug with cable for internal BUS

Features: Drive line monitoring, fixing on 35-mm mounting rail.

Configuration of the functional and performance features, which deviates from

the standard systems via configuration software EMB 8000+.

VERSIONS						
PartNo.						
688250	Delivery in parcel	for customer self-installation				
688250-9	Module factory fitted	factory fitted and fully wired				

230 V-DM Vent - Drive-Modul Vent

Application: For the controlling of 230 V AC drives.



TECHNICAL DATA (Rated values)

Operating voltage: 230 V AC
Output voltage: 230 V AC
Internal consumption: 7,0 mA
Output current: 5 A

Housing (WxHxD): 100 x 120 x 22,5 mm, ABS, black

Module units: 1 ME

Inputs: Vent. buttons (max. 10 pcs), feedback contact OPEN/CLOSE

Outputs: Drive lin

Display: Power, fault, alarm, running direction OPEN / CLOSE

Control elements: Front push button: OPEN / CLOSE

Connections: Plug-in terminals 1 mm² (rigid wire), Drives: 2,5 mm², socket and plug with cable for internal BUS

FAT First control of

Built-in fuse: 5AT 5 x 20 mm

Features: Fixing on 35-mm mounting rail.

Configuration of the functional and performance features, which deviates from

the standard systems via configuration software EMB 8000+.

VERSIONS						
PartNo.						
688280	Delivery in parcel	for customer self-installation				
688280-9	Module factory fitted	factory fitted and fully wired				



5 A



DMX - Drive-Module

Application: For the controlling of drives, gas-pressure generators and magnetic locks.



TECHNICAL DATA (Rated values)

Operating voltage: 24 V DC

Output voltage: 24 V DC (20 – 28 V DC / 0,5 Vpp)

Internal consumption: 5,3 mA
Output current: 20 A

Housing (WxHxD): 100 x 120 x 45 mm, ABS, black

Module units: 2 ME

Inputs: Vent. buttons (max. 10 pcs), feedback contact OPEN/CLOSE Outputs: Drive line (gas-pressure generators / magnetic locks)
Display: Power, fault, alarm, running direction OPEN / CLOSE

Control elements: Front push button: OPEN / CLOSE Connections: Plug-in terminals 1 mm² (rigid wire),

Blade terminals 6,3 mm: Drives + power supply, socket and plug with cable for internal BUS

20 A

10 A

Features: Drive line monitoring, fixing on 35-mm mounting rail.

Configuration of the functional and performance features, which deviates from

the standard systems via configuration software EMB 8000+.

Note: Drive output for blade terminals 6,3 mm!

Putchased parts package: 3 wires 2,5 mm², 400 mm length with blade terminals.

Terminals always have to be ordered separately! (See options)

VERSIONS	VERSIONS						
PartNo.							
688255	Delivery in parcel	for customer self-installation					
688255-9	Module factory fitted	factory fitted and fully wired					

IDM - Intelligent-Drive-Module

Application: For operating intelligent Aumüller S12 / S3 drives up to max. 10 A total current.



TECHNICAL DATA (Rated values)

Operating voltage: 24 V DC

Output voltage: 24 V DC (20 – 28 V DC / 0,5 Vpp)

Internal consumption: 6 mA
Output current: 10 A

Housing (WxHxD): 100 x 120 x 22,5 mm, ABS, black

Module units: 1 ME

Inputs: Vent. buttons (max. 10 pcs), feedback contact OPEN/CLOSE

0 - 10 V analog input
Outputs: Drive line (Aumüller S12 / S3)

Display: Power, fault, alarm, running direction OPEN / CLOSE

Control elements: Front push button: OPEN / CLOSE

Connections: Plug-in terminals 1 mm² (rigid wire), Drives: 2,5 mm²,

Blade terminals 6,3 mm: Power supply, socket and plug with cable for internal BUS

0-10 V analog input

Features: Drive line monitoring, fixing on 35-mm mounting rail.

Configuration of the functional and performance features, which deviates from

the standard systems via configuration software EMB 8000+.

VERSIONS					
PartNo.					
688257	Delivery in parcel	for customer self-installation			
688257-9	Module factory fitted	factory fitted and fully wired			



SM - Sensor-Module

Application: For the connecting of automatic smoke detectors and break-glass units.



TECHNICAL DATA (Rated values)

Operating voltage: 24 V DC
Detector line voltage: 24 V DC
Internal consumption: 12,6 mA

Housing (WxHxD): 100 x 120 x 22,5 mm, ABS, black

Module units: 1 ME

Inputs: 3 detector lines (max 10 detectors/line) Ventialtion buttons (max. 10 pcs.)

Outputs: 1 feedback contact (change-over switch, 42 V / 0,5 A)

Display: Power, fault, alarm
Control elements: Front push button: Reset

Connections: Plug-in terminals 1 mm² (rigid wire),

socket and plug with cable for internal BUS

Features: Überwachte detector lines, fixing on 35-mm mounting rail.

Configuration of the functional and performance features, which deviates from

the standard systems via configuration software EMB 8000+.

VERSIONS						
PartNo.						
688150	Delivery in parcel	for customer self-installation				
688150-9	Module factory fitted	factory fitted and fully wired				

RM6 - Relay-Module

Application: For the transmitting of signals via volt free relay contacts.



TECHNICAL DATA (Rated values)

Operating voltage: 24 V DC Internal consumption: 5,3 mA

Housing (WxHxD): 100 x 120 x 22,5 mm, ABS, black

Module units: 1 ME

Outputs: 6 volt free relay contacts (change-over switch, 42 V / 0,5 A)

Display: Operating, Fault

Connections: Plug-in terminals 1mm² (rigid wire),

socket and plug with cable for internal BUS

Features: Fixing on 35-mm mounting rail.

Configuration of the functional and performance features, which deviates from

the standard systems via configuration software EMB 8000+.

VERSIONS						
PartNo.						
688200	Delivery in parcel	for customer self-installation				
688200-9	Module factory fitted	factory fitted and fully wired				



IM-K - KNX-Module

Application: For communication between the Aumüller control unit EMB 8000+ and the KNX-BUS-System



TECHNICAL DATA (Rated values)

Operating voltage: 24 V DC Internal consumption: 6 mA BUS current: 9 mA

Data points: up to 16 lines with up to 16 data points Housing (WxHxD): 100 x 120 x 22,5 mm, ABS, black

Module units: 1 Mi

Inputs: 6 analog inputs KNX sided,

KNX-BUS terminal

Outputs: 3 x potential free Relay contacts via KNX
Display: Operation, fault, KNX-programming LED

Control elements: KNX-programming button
Connections: Plug-in terminals 1mm² (rigid wire),

socket and plug with cable for internal BUS

Features: Fixing on 35-mm mounting rail.

Configuration of the functional and performance features, which deviates from

the standard systems via configuration software EMB 8000+,

and an ETS-Software for KNX programming.

VERSIONS	VERSIONS						
PartNo.							
688265	Delivery in parcel	for customer self-installation					
688265-9	Module factory fitted	factory fitted and fully wired					

WM - Weather-Module

Application: For the connecting of weather sensors.



TECHNICAL DATA (Rated values)

Operating voltage: 24 V DC
Detector line voltage: 24 V DC
Internal consumption: 13,0 mA

Housing (WxHxD): 100 x 120 x 22,5 mm, ABS, black

Module units: 1 ME

Inputs: Wind- and rain sensors, wind direction sensor,

external signals

Outputs: Volt free contact (change-over switch, 42 V / 0,5 A)

Display: Power, fault, wind / rain activ
Connections: Plug-in terminals 1,5 mm² (rigid wire)

Features: Fixing on 35-mm mounting rail.

Configuration of the functional and performance features, which deviates from

the standard systems via configuration software EMB 8000+.

VERSIONS						
PartNo.						
688180	Delivery in parcel	for customer self-installation				
688180-9	Module factory fitted	factory fitted and fully wired				



Part.-No.

Control-Module CM 688120

Application: Module for customer self-installation into the SHEV Control Unit EMB 8000+ for the connecting of automatic smoke

detectors and break-glass units. Monitors three fire alarm lines for triggering and malfunction.

Processes signals from ventilation buttons.



TECHNICAL DATA (Rated values)

Operating voltage: 24 V DC
Detector line voltage: 24 V DC
Internal consumption: 34,1 mA

Housing (WxHxD): 100 x 120 x 22,5 mm, ABS, black

Module units: 1 ME

Inputs: 3 Detector lines (max. 10 detectors / line)

1 BUS-detector lines (max. 30 detectors) 1 Ethernet port

1 CAN interface

Ventialtion push buttons (max. 10 pieces)

Outputs: 1 Feedback contact (1x change-over switch, 42 V / 0,5 A)

Display: Power, fault, alarm

Control elements: Front push button: Reset

Plug-in terminals 1 mm² (rigid wire), socket and plug with cable for internal BUS

Feature/Equipment

- Fixing on 35-mm mounting rail.
- Parameterization of functional and performance features that differ from the standard via configuration software EMB 8000+.
- Belongs to the basic equipment of a Control Unit and must be connected directly with the Power-Module PM via BUS cable.

Power-Module PM 688050

Application: Module for customer self-installation into the SHEV Control Unit EMB 8000+ for monitoring of the main power supply.

Monitors the main power supply. Checks the accumulator charging voltage.

Switches to back-up accumulator operation during power failure.



TECHNICAL DATA (Rated values)

Operating voltage: 24 V DC Internal consumption: 16,0 mA

Housing (WxHxD): 100 x 120 x 45 mm, ABS, black

Module units: 2 ME

Display: Power, fault, status

Connections: Plug-in terminals 1 mm² (rigid wire),

Socket and plug with cable for internal BUS

Feature/Equipment

- Fixing on 35-mm mounting rail.
- Parameterization of functional and performance features that differ from the standard via configuration software EMB 8000+.
- Has a connection for a sensor "temperature-dependent charging of back-up accumulators".



Part.-No.

Power-Module PME 688100

Application: Module for customer self-installation into the SHEV Control Unit EMB 8000+ for monitoring of the main power supply.

Monitors the main power supply for more than one switching power supply.

Switches to back-up accumulator operation during power failure.



TECHNICAL DATA (Rated values)

Operating voltage: 24 V DC Internal consumption: 0 mA

Housing (WxHxD): 100 x 120 x 45 mm, ABS, black

Module units: 2 ME

Display: Power, status

Connections: Socket and plug with cable for internal BUS

Feature/Equipment

Fixing on 35-mm mounting rail.



TERMINALS TO SEND								
PartNo.								
659941	Terminals-Set 5 x 2,5 mm ²	for customer self-installation						
659942	Terminals-Set 5 x 6,0 mm ²	for customer self-installation						
659943	Terminals-Set 5 x 10 mm ²	for customer self-installation						
659944	Terminals-Set 5 x 16 mm ²	for customer self-installation						

TERMINALS TO BE INSTALLED FROM THE FACTORY								
PartNo.								
659945-9	Single terminal DS	2,5 mm ²	factory fitted and fully wired					
659946-9	Single terminal	6 mm ²	factory fitted and fully wired					
659947-9	Single terminal	10 mm ²	factory fitted and fully wired					
659948-9	Single terminal	16 mm ²	factory fitted and fully wired					
669937-9	Terminals-Set ML	5 x 6 mm ²	factory fitted and fully wired					
669938-9	Terminals-Set ML	5 x 10 mm ²	factory fitted and fully wired					
669939-9	Terminals-Set ML	5 x 16 mm ²	factory fitted and fully wired					
669949-9	Terminals-Set ML 230 V	5 x 4 mm ²	factory fitted and fully wired					
669940-9	Terminals-Set HSE	2,5 mm ²	factory fitted and fully wired					
669941-9	Terminals-Set RM	2,5 mm ²	factory fitted and fully wired					
669942-9	Terminals-Set LT	2,5 mm ²	factory fitted and fully wired					
669943-9	Terminals-Set LT with display	2,5 mm ²	factory fitted and fully wired					
669944-9	Terminals-Set relays	2,5 mm ²	factory fitted and fully wired					
669945-9	Terminals-Set blocking contact	2,5 mm ²	factory fitted and fully wired					
669946-9	Terminals-Set BUS-HSE	2,5 mm ²	factory fitted and fully wired					
669947-9	Terminals-Set WM	2,5 mm ²	factory fitted and fully wired					
669948-9	Terminals-Set CAN	2,5 mm ²	factory fitted and fully wired					

SERVICE								
PartNo.								
240	Plan creation	Wiring diagram per SHEV / ventilation group						
688930	Programming	Programming an EMB8000+ in the factory						
SL125	Online commissioning support	Price per hour						



Part.-No.

Surge arrester Type 3

Application: Surge arrester Type 3 for Control Unit output 1-phase or 3-phase - with additional detector contact.

For TS35; cross section of wire min. 1,5mm²



TECHNICAL DATA (Rated values)

Nominal voltage: 230 V AC
Version: Type 3 / Class III

Function display: green / red
Ambient temperature range: -40°C +80°C

Connection cross-section: max. 4 mm²
Protection rating: IP20

VERSIONS								
PartNo.								
659977-9	1-phase	Module factory fitted - factory fitted and fully wired						
659978-9	3-phase	Module factory fitted - factory fitted and fully wired						

Automatic circuit breaker

Application: Automatic circuit breaker for interrupting the circuit in the event of a short circuit or overload.

In the versions 6 A or 16 A or 25 A.



TECHNICAL DATA (Rated values)

Nominal voltage: 230 V AC / 400 V AC (depending on the versions)

Housing: Insulation group II, RAL 7035

Ambient temperature range: -25°C +55°C

Connection cross-section: flexible with wire end ferrule 0,75 ... 25 mm²

(depending on the versions)

Protection rating: IP20

VERSIO	VERSIONS						
PartNo.							
669970-9	B 6A 1-pole	Module factory fitted - factory fitted and fully wired					
669971-9	B16A 1-pole	Module factory fitted - factory fitted and fully wired					
669972-9	B25A 1-pole	Module factory fitted - factory fitted and fully wired					
669973-9	B16A 3-pole	Module factory fitted - factory fitted and fully wired					



Part.-No.

Software licence EMB 8000+ Alpha

Application: Software licence for configuration, integration in networks and maintenace of EMB 8000+.



TECHNICAL DATA
System requirements:
Microsoft® Windows 10 - 64 Bit

Note
Aumüller grants licences only after attending a product training

SOFTWARE / LICENSE / PROGRAMMING

Licence for 1 month
Licence for 3 years

688913



Part.-No.

Accumulators

Application: Maintenance of standby operation of SHEV control units over a period of 72 hours of main power supply loss.



TECHNICAL DATA

Type: Lead storage battery

Output voltage: 12 V DC Capacity: see order data

Lifetime: 4 years (normal conditions)

Connections: 7 – 12 Ah: blade terminals 4,8 mm
17 – 38 Ah: screw terminals M5

Housing: plastic, impact- and break-resistent

Feature/Equipment

- Maintenance free operation, long lasting durability, hight charging performance and long-cycle stability
- Disposal due to local, national or international rules (WEEE)

NOTE: Always 2 batteries are required per control unit!

THE FILE A Way 5 2 Batterness are required per control aint.								
OPTIONS								
for contr	ol units with backup power supply							
7 Ah, 12 '	/ 1 Pcs.	542000						
12 Ah, 12	V 1 Pcs.	542200						
17 Ah, 12	V 1 Pcs.	543000						
24 Ah, 12	V 1 Pcs.	544000						
38 Ah, 12	V 1 Pcs.	545000						

Relay interface

Application: Relay for the connection of 230 V AC drives to a 24 V DC drive line, triggering by pole change of 24 V DC drive line.



TECHNICAL DATA (Rated values)

Operating voltage: 24 V DC, +/-20% (max. 2 Vpp)

Standby consumption: <100 mA
Switching capacity: 230 V AC / 3 A
Drive type: S2, S3, S12, MP
Ambient temperature range: 0 ... +70 °C

Housing: Surface mounting, plastic, white

Dimensions (WxHxD): 98 x 98 x 58 mm

Connections: Screw terminals 4,0 mm² (rigid wire)

Protection rating: IP54

Feature/Equipment

■ Connection to the **drive line** of SHEV or natural ventilation control units

VERSIONS	3			
PartNo.				
670071	Delivery in parcel	for customer self-installation		
670075-9	Module factory fitted	factory fitted and fully wired. Including 5 terminals 4,0 mm ²		

ACCESSORIES								
PartNo.		VE						
500001	Wall fixing brackets IP54	4 piece						



Part.-No.

Time switch 659927-9

Application: For the time controlled opening / closing of ventilation lines, with 30 day- and week-programm steps.



TECHNICAL DATA (Rated values)

Operating voltage: 230 V AC
Contact type: change-over switch
Switching capacity: 230 V AC / 16 A

Housing: plastic, white, for 35 mm top rail

Dimensions (WxHxD): 17,6 x 63 x 90 mm

Connections: Screw terminal 1,5 mm² (rigid wire)

Protection rating: IP20

Feature/Equipment

- Connection to the **ventilation input** of SHEV or natural ventilation Control Units
- Module factory fitted / factory fitted and fully wired

Temperature sensor

Application: Temperature sensor PM - conductor with connection piece for the Control Unit EMB 8000+



TECHNICAL DATA (Rated values)

Hardware: REV.1
Bootloader: BL V0.0.10
Application: V0.0.17

Cable: 0,09mm² - AWG28; RM1,27

Certification: CE

Feature/Equipment

Conductor with connection piece

M	Έ	D	0	П	0	A	П	0
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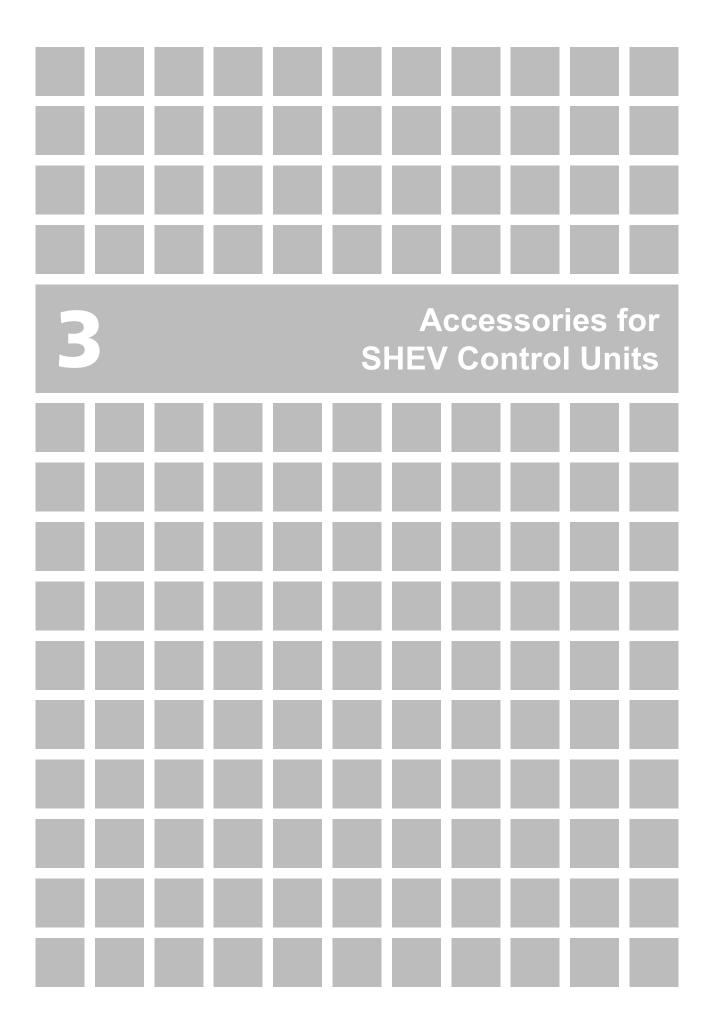
VERSIONS								
for SHEV Cor	ntrol Units of emergency power supply	PartNo.						
1 piece	PM 0,4 m	680055						
1 piece	PM 0,9 m	680056						

For this product series, a Type III Environmental Product Declaration (EPD) was issued according to ISO 14025 and EN 15804.

The LCA results of the different product types are listed at the end of this product catalogue.

The EPD documents can be viewed or downloaded from our homepage www.aumueller-gmbh.de.

aumüller**•**







HSE - Break-glass unit

■ HSE – main control panel

■ HSE-N – secondary control panel

■ HSE — main control panel with buzzer

To the product

■ BUS HSE - main control panel with BUS

■ Frame – for flush mounting



Automatic detector

Optical BUS smoke detector

■ Optical smoke detector

■ FAS Interface-Module

■ Drive line end module

■ Heat sensitive fire detector

■ Heat sensitive detector clip 70°C



Power supply

■ NT-DRA240-10 - Power supply 230 V AC / 24 V DC, 5 A

■ NT-DRA240-10 - Power supply 230 V AC / 24 V DC, 10 A

■ NT-DRA480-20 - Power supply 230 V AC / 24 V DC, 20 A

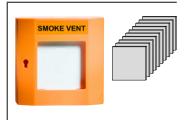
,

■ External Power Supply Laser Sensor



To the

product





Accesories for HSE (Break-glass unit)

■ HSE-Empty Housing - Break-glass unit

■ Key for plastic Break-glass unit

■ Key for aluminium Break-glass unit

■ Replacement glass panes for Break-glass unit

■ Circuit board for Break-glass unit - ABS

■ Circuit board for Break-glass unit

To the product

03/2023



Part.-No.

HSE - Break-glass unit main control panel

Application: Break-glass unit with indicators for manual activation of the Emergency OPEN function

and the CLOSE function of a SHEV group via the detector lines of a SHEV Control Unit.



TECHNICAL DATA (Rated values)

Operating voltage: 24 V DC Ambient temperature range: -5° C ... +40°C Dimensions (WxHxD): 130 x 130 x 32 mm

Connections: Spring terminals, 0,5 mm² (rigid wire)

Protection rating: IP30

Display: Emergency OPEN, power, fault

Control elements: Button for Emergency OPEN / Button for CLOSE

Feature/Equipment

- Lockable, glazed door (including key)
- Connection to the detector line input
- The termination resistance is activated or deactivated using a DIP switch

New

VERSIONS				
HSE orange	Aluminium	(similar to RAL 2011)	528400	
HSE red	Aluminium	(similar to RAL 3000)	528401	
HSE yellow	Aluminium	(similar to RAL 1018)	528402	
HSE blue	Aluminium	(similar to RAL 5015)	528403	
HSE grey	Aluminium	(similar to RAL 7035)	528404	

HSE - Break-glass unit main control panel

Application: Break-glass unit with indicators for manual activation of the Emergency OPEN function

and the CLOSE function of a SHEV group via the detector lines of a SHEV Control Unit.



TECHNICAL DATA (Rated values)

Operating voltage: 24 V DC
Ambient temperature range: -5°C ... + 40°C

Housing: Surface mounting, plastic (ABS)

Dimensions (WxHxD): 130 x 130 x 32 mm

Connections: Screw terminal, 1,0 mm² (rigid wire)

Protection rating: IP30

Display: Emergency OPEN, power, fault

Control elements: Button for Emergency OPEN / Button for CLOSE

Feature/Equipment

- Lockable, glazed door (including key)
- Connection to the detector line input
- HSE orange: VdS certification no. G 501006

DISCONTINUED PRODUCT

ABS

VERSIONS HSE red (similar to RAL 3000) 528691 **HSE** yellow (similar to RAL 1018) 528692 **HSE** grey (similar to RAL 7035) 528693 **HSE** blue (similar to RAL 5015) 528694 (similar to RAL 2011) 528695 **HSE** orange



Part.-No

HSE-N - Break-glass unit secondary control panel

Application: Break-glass unit with indicators for manual activation of the Emergency OPEN function of a SHEV group

via the detector lines of a SHEV Control Unit



TECHNICAL DATA (Rated values)

Operating voltage: 24 V DC
Ambient temperature range: -5°C ... +40°C
Dimensions (WxHxD): 130 x 130 x 32 mm

Connections: Spring terminals, 0,5 mm² (rigid wire)

Protection rating: IP30

Display: Emergency OPEN

Control elements: Button for Emergency OPEN

Feature/Equipment

- Lockable, glazed door (including key)
- Connection to the detector line input
- The termination resistance is activated or deactivated using a DIP switch

New

VERSIONS				
HSE-N orange	Aluminium	(similar to RAL 2011)	528410	
HSE-N red	Aluminium	(similar to RAL 3000)	528411	
HSE-N yellow	Aluminium	(similar to RAL 1018)	528412	
HSE-N blue	Aluminium	(similar to RAL 5015)	528413	
HSE-N grey	Aluminium	(similar to RAL 7035)	528414	

HSE-N - Break-glass unit secondary control panel

Application: Break-glass unit with indicators for manual activation of the Emergency OPEN function of a SHEV group

via the detector lines of a SHEV Control Unit



TECHNICAL DATA (Rated values)

Operating voltage: 24 V DC
Ambient temperature range: -5°C ... + 40°C

Housing: Surface mounting, plastic (ABS)

Dimensions (WxHxD): 130 x 130 x 32 mm

Connections: Screw terminal, 1,0 mm² (rigid wire)

Protection rating: IP30

Display: Emergency OPEN

Control elements: Button for Emergency OPEN

Feature/Equipment

- Lockable, glazed door (including key)
- Connection to the detector line input
- HSE orange: VdS certifcation no. G 501006

DISCONTINUED PRODUCT

VERSIONS			
HSE-N red	(similar to RAL 3000)	525001	
HSE-N yellow	(similar to RAL 1018)	525002	
HSE-N grey	(similar to RAL 7035)	525003	
HSE-N blue	(similar to RAL 5015)	525004	
HSE-N orange	(similar to RAL 2011)	525005	

ABS



Part.-No.

HSE - Break-glass unit main control panel - buzzer

Application:

Break-glass unit with built-in buzzer and indicators and buttons for the manual activation of the Emergency OPEN function and Emergency CLOSE function of a SHEV group via the detector lines of a SHEV Control Unit.

Signal for faults and alarm selectable via DIP switches.



TECHNICAL DATA (Rated values)

Operating voltage: 24 V DC Ambient temperature range: -5° C ... +40°C Dimensions (WxHxD): 130 x 130 x 32 mm

Connections: Spring terminals, 0,5 mm² (rigid wire)

Protection rating: IP30

Display: Emergency OPEN, power, fault

Control elements: Button for Emergency OPEN / Button for CLOSE

Feature/Equipment

- Built-in buzzer
- Lockable, glazed door (including key)
- Connection to the detector line input
- The termination resistance is activated or deactivated using a DIP switch

Signal for faults and alarm selectable via DIP switches.

New

SUMMER

ABS

SUMMER

VERSIONS				
HSE-Summer orange	Aluminium	(similar to RAL 2011)	528420	
HSE-Summer red	Aluminium	(similar to RAL 3000)	528421	
HSE-Summer yellow	Aluminium	(similar to RAL 1018)	528422	
HSE-Summer blue	Aluminium	(similar to RAL 5015)	528423	
HSE-Summer grey	Aluminium	(similar to RAL 7035)	528424	

HSE - Break-glass unit main control panel - buzzer

Application:

Break-glass unit with built-in buzzer and indicators and buttons for the manual activation of the Emergency OPEN function and Emergency CLOSE function of a SHEV group via the detector lines of a SHEV Control Unit.



TECHNICAL DATA (Rated values)

Operating voltage: 24 V DC

Ambient temperature range: -5°C ... + 40°C

Housing: Surface mounting, plastic (ABS)

Dimensions (WxHxD): 130 x 130 x 32 mm Connections: Screw terminal, 1,0 mm² (rigid wire)

Protection rating: IP30

Display: Emergency OPEN, power, fault

Control elements: Button for Emergency OPEN / Button for CLOSE

Feature/Equipment

- Built-in buzzer
- Lockable, glazed door (including key)
- Connection to the detector line input
- Settings via DIP switch: Warning sound in case of fault and / or SHEV

DISCONTINUED PRODUCT

VERSIONS			
HSE red	(similar to RAL 3000)	528711	
HSE yellow	(similar to RAL 1018)	528712	
HSE grey	(similar to RAL 7035)	528713	
HSE blue	(similar to RAL 5015)	528714	
HSE orange	(similar to RAL 2011)	528715	



ABS

BUS

ORDER DATA

Part.-No.

HSE - Break-glass unit main control panel

Application: Break-glass unit with indicators and buttons for the manual activation of the Emergency OPEN function and CLOSE function of a SHEV group, for connection in the BUS line of a control unit.



TECHNICAL DATA (Rated values)

Operating voltage: 24 V DC Ambient temperature range: $-5^{\circ}\text{C} \dots + 40^{\circ}\text{C}$

Housing: Surface mounting, plastic (ABS)

Dimensions (WxHxD): 130 x 130 x 32 mm Connections: BUS terminal, 2 x 0,8 mm²

Protection rating: IP3

Display: Emergency OPEN, power, fault

Control elements: Button for Emergency OPEN / Button for CLOSE

Connection possibility: Ventilation push button - input Screw terminal, 1,0 mm² (rigid wire)

Feature/Equipment

■ Lockable, glazed door (including key)

■ Connection to the detector line input

DISCONTINUED PRODUCT

VERSIONS			
HSE red	(similar to RAL 3000)	528491	
HSE yellow	(similar to RAL 1018)	528492	
HSE grey	(similar to RAL 7035)	528493	
HSE blue	(similar to RAL 5015)	528494	
HSE orange	(similar to RAL 2011)	528495	

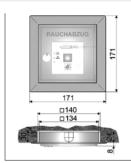


Part.-No.

HSE - Frame for flush mounting

528015

Application: Flush mounting of break-glass units.



TECHNICAL DATA

Housing: Dimensions (WxHxD): Surface:

Installation Dimensions:

Surface mounting, steel sheet

171 x 171 x 26 mm

powder-coated in light grey w/o structure

140 x 140 x 30 mm

ALU

Feature/Equipment

■ Suitable for break-glass units (130 x 130 x 32 mm) - until 2023 only for HSE in version "ABS" (plastic housing) - from 2023 for all HSE



BUS

ORDER DATA

Part.-No.

Optical BUS-smoke detector 531530

Application: BUS-smoke detector for the automatic early detection of fire for controlling of the EMERGENCY OPEN function via the

BUS detector line of the EMB 8000+, with smoke generation in the monitored area.



TECHNICAL DATA (Rated values)

Measuring element: photo electric / scattered light principle

Operating voltage: 24 V DC via BUS Standby current: 210 µA

Housing: Surface mounting, plastic (ABS), signal white (similar to RAL 9003)

Dimensions (WxHxD): Ø120 x 60 mm

Connections: Screw terminals 1,0 mm² (rigid wire)

Protection rating: IP30

Ambient temperature range: -10°C ... +55°C Display: Alarm LED

Feature/Equipment

• Fire algorithms for avoiding false alarms, automatic alarm threshold tracking

According to EN 54-7, Connection to the BUS detector line input

■ VdS certifcation no. G 209219

Optical smoke detector 53152

Application: Smoke detector for the automatic early detection of fire for controlling of the EMERGENCY OPEN function via a

detector line of SHEV control units, with smoke generation in the monitored area.



TECHNICAL DATA (Rated values)

Measuring element: photo electric / scattered light principle

Operating voltage: 8,5-33 V DCStandby current: $<100 \text{ } \mu\text{A}$

Housing: Surface mounting, plastic (ABS), pearl white

Dimensions (WxHxD): Ø100 x 50 mm

Connections: Screw terminals 1,0 mm² (rigid wire)

Protection rating: IP23D

Display: Alarm LED

Feature/Equipment

- Fire algorithms for avoiding false alarms, automatic alarm threshold tracking
- According to EN 54-7, connection to the detector line input

ACCESSORIES

Ball protection (chromed steel grid) e.g. use in sporthalls 513546

FAS Interface-Module 670053

Application: Module for the automatic control of the emergency open function via volt free contact of a fire alarm system.



TECHNICAL DATA (Rated values)

Operating voltage: 24 V DC Standby consumption: <10 mA Ambient temperature range: $0 \dots +40 \text{ °C}$

Housing: w/o, equipped circuit board

Dimensions (WxHxD): 27 x 19 x 13 mm

Connections: Screw terminal 1,5 mm² (rigid wire) FAS contact: Normal open switch at alarm status

Feature/Equipment:

■ For connection to **detector line input** of SHEV control units, with line monitoring between control unit and module



Part.-No.

Drive line end module 670052

Application: For installation in the last or only junction box for the line monitoring of drive line.



TECHNICAL DATA (Rated values)

 $\begin{array}{lll} \mbox{Operating voltage:} & 24 \mbox{ V DC (+/-5\%)} \\ \mbox{Standby consumption:} & <10 \mbox{ mA} \\ \mbox{Ambient temperature range:} & 0 \mbox{ ... +70 °C} \\ \end{array}$

Housing: w/o, equipped circuit board

Dimensions (WxHxD): 27 x 19 x 13 mm Connections: 3 single cores

Feature/Equipment

■ For connection into **drive line** of SHEV control units

Heat sensitive fire detector

Application: Heat detector for the automatic control of the emergency open function of a SHEV group of a SHEV control unit.



TECHNICAL DATA (Rated values)

Measuring element:
Operating voltage:
Contact load:
Standby current:
Bimetal switch
24 V DC
48 V DC / 0,5 A
54 V DC / 0,5 A

Housing: Surface mounting, plastic (ABS), white

Dimensions (WxHxD): Ø56 x 77 mm

Connections: Screw terminals 1,0 mm² (rigid wire)

Protection rating: IP20

Feature/Equipment

■ With base for surface mounting

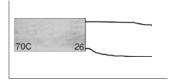
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V		O	ш	J	1.4	0

Connection in detector line	NO switch 70°C	533205
Connection in drive line	NC switch 70°C	533200

Heat sensitive detector clip 70°C

533201

Application: Heat detector for controlling of the emergency open function of a SHEV group, for connection in the drive line.



Measuring element: Bimetal switch with ceramic housing

Operating voltage: 24 V DC
Contact type: NC switch at 70°C
Contact load: 48 V DC / 0,5 A
Standby current: < 10 mA

Feature/Equipment

■ No housing, connection in the **monitoring line of the drive output** of a SHEV control unit



Part -No

NT-DRAN120-5 - Power supply 230 V AC / 24 V DC, 5 A

680005

Application:

Switching power supply for fixing on 35-mm mounting rail or external power supply

of the ventilation modules LZA and LZH.

TECHNICAL DATA

Operating voltage: Power consumption max. : 230 V AC (195 - 253 V AC, 50/60 Hz)

322 W

24 V DC (20 - 28 V DC / 0,5 Vpp) Output voltage:

Output current:

5 A Ambient temperature range:

Housing:

Dimensions (WxHxD):

-5°C ... + 40°C for fixing on 35-mm mounting rail 65 x 95 x 123 mm

Feature/Equipment

• For installation in a control cabinet or comparable housing.

a) (3) (2)

NT-DRA240-10 - Power supply 230 V AC / 24 V DC, 10 A

680010

Application:

Switch mode power supply for power supply and control of drives 24 V DC for daily ventilation, with one ventilation line. Control in the OPEN / CLOSE direction via the 230 V AC mains voltage.

TECHNICAL DATA

Operating voltage: Output voltage: Output current:

Ambient temperature range:

Housina:

Dimensions (WxHxD):

230 V AC (195 - 253 V AC, 50/60 Hz) 24 V DC (20 - 28 V DC / 0,5 Vpp)

10 A

-5°C ... + 40°C

for fixing on 35-mm mounting rail

125 x 84 x 124 mm



• For installation in a control cabinet or comparable housing.

(2) (2) (2)

NT-DRA480-20 - Power supply 230 V AC / 24 V DC, 20 A

680024

Application:

Switch mode power supply for power supply and control of drives 24 V DC for daily ventilation, with one ventilation line. Control in the OPEN / CLOSE direction via the 230 V AC mains voltage.



TECHNICAL DATA

Operating voltage: Output voltage: Output current:

Ambient temperature range:

Housing:

Dimensions (WxHxD):

230 V AC (195 - 253 V AC, 50/60 Hz) 24 V DC (20 - 28 V DC / 0,5 Vpp)

20 A

-5°C ... + 40°C

for fixing on 35-mm mounting rail

125 x 176 x 124 mm

Feature/Equipment

• For installation in a control cabinet or comparable housing.



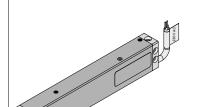
Part.-No.

External Power Supply Laser Sensor 680027

Application: External Power Supply NT-S-2 KS2/KSA - 230 V AC / 24 V DC factory installed in KS2 chain drive housing.

For power supply and control of SKL3 flatscan and flat scan sensor.

Connection cable:



TECHNICAL DATA (Rated values)

Operating voltage: 230 V AC (195 – 253 V AC, 50/60 Hz)

Record measurement:

Output voltage: 24 V DC (20 - 28 V DC / 2 Vpp)

Output current: 2,0 A

Output: 1x drive line - 24 V DC / 2,0 A

1x continuous current - 24 V DC / 0,2 A

Connections: 24 V DC drive, up to max. 2,0 A 24 V DC continuous current, up to max. 0,2 A

non-halogen, grey 6 x 0,75 mm², length 3 meters maximum extendable to 25 meters in length

Aluminium natural anodized

Housing: Dimensions (WxHxD): 41 x 26 x 230 mm

Screw terminals 1,0 mm² (rigid wire) Connection terminals:

Protection rating: IP 32

Feature/Equipment

• Factory installed in the housing of a KS2 chain drive.



Part.-No.

HSE-Empty Housing - Break-glass unit

Application: HSE-Empty Housing with lockable, glazed door - including key.



TECHNICAL DATA (Rated values)

Dimensions (WxHxD): 130 x 130 x 32 mm

New

VERSIONS				
HSE-Empty Housing orange	Aluminium	(similar to RAL 2011)	528480	
HSE-Empty Housing red	Aluminium	(similar to RAL 3000)	528481	
HSE-Empty Housing yellow	Aluminium	(similar to RAL 1018)	528482	
HSE-Empty Housing blue	Aluminium	(similar to RAL 5015)	528483	
HSE-Empty Housing grey	Aluminium	(similar to RAL 7035)	528484	

HSE-Empty Housing - Break-glass unit

Application: HSE-Empty Housing with lockable, glazed door - including key.



TECHNICAL DATA (Rated values) Housing:

Dimensions (WxHxD):

Surface mounting, plastic (ABS) 130 x 130 x 32 mm

ABS

DISCONTINUED PRODUCT

VERSIONS			
HSE-Empty Housing red	(similar to RAL 3000)	528001	
HSE-Empty Housing yellow	(similar to RAL 1018)	528002	
HSE-Empty Housing grey	(similar to RAL 7035)	528003	
HSE-Empty Housing blue	(similar to RAL 5015)	528004	
HSE-Empty Housing orange	(similar to RAL 2011)	528009	



Part.-No. 527007

Key for plastic Break-glass unit (HSE plastic button)

Colour:

The plastic Break-glass units (HSE plastic button) have a lockable door. Application:

The key is used to open or close this door.



TECHNICAL DATA

Function: for plastic Break-glass unit (HSE plastic button) Material:

Polyamid PA 6.6

white

Key: 1 piece

Feature/Equipment

■ Suitable for all **Aumüller** plastic Break-glass unit (HSE plastic buttons)

Key for aluminium Break-glass unit (HSE aluminium button)

527008

The aluminium Break-glass units (HSE aluminium button) have a lockable door. Application:

Type:

The key is used to open or close this door.



TECHNICAL DATA

Function: for aluminium Break-glass unit (HSE aluminium button) Material:

Schl-HM/10

Keys: 10 pieces

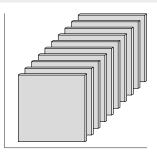
Feature/Equipment

■ Suitable for all **Aumüller** aluminium Break-glass unit (HSE aluminium buttons)

Replacement	alace no	noe for	Brook-glace	unit /HSE	hutton)

527002

Application: Panes of glass for replacement on site.



TECHNICAL DATA

Dimensions (W x H x D): 80 x 80 x 0.7 Glass panes: 10 pieces

Feature/Equipment

■ Suitable for all **Aumüller** Break-glass unit (HSE buttons)

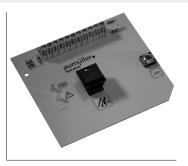


Part.-No.

Circuit board for Break-glass unit ABS (HSE button ABS)

Application: Circuit board for Break-glass unit (HSE button) - with logo "Ferralux".

Can be exchanged on site - without subsequent processing.



TECHNICAL DATA

Type: Ferralux DIN99-1 A-Z /A-B-S, is equipped

Installation in an ABS housing

For housing type: Plastic



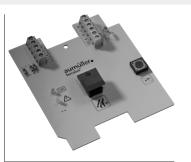
ALU

VERSIONS		
with certification VdS	528785	
without certification VdS	528784	

Circuit board for Break-glass unit (HSE button)	528782

Application: Circuit board for Break-glass unit (HSE button) - with logo "Ferralux".

Can be exchanged on site - without subsequent processing.



TECHNICAL DATA

Type:

For housing type:

Ferralux DIN AL4 orange, is equipped Installation in an aluminum housing

VdS similar version

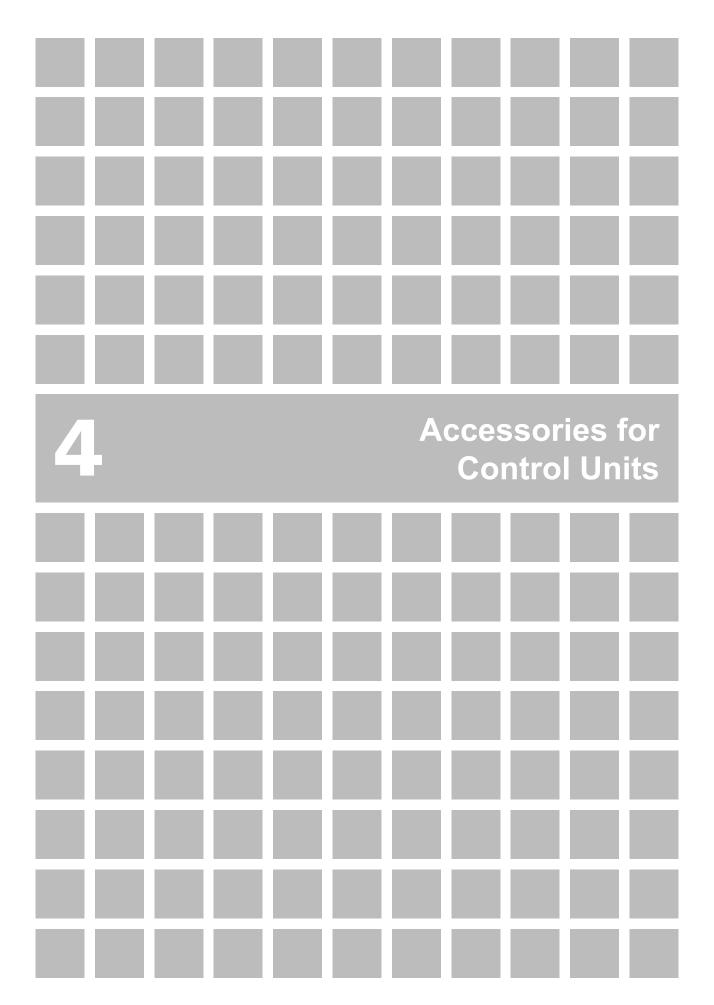
Aluminium

For this product series, a Type III Environmental Product Declaration (EPD) was issued according to ISO 14025 and EN 15804.

The LCA results of the different product types are listed at the end of this product catalogue.

The EPD documents can be viewed or downloaded from our homepage www.aumueller-gmbh.de.

aumüller**.**







Ventilation button + Interface-Module for ventilation

- Ventilation button (24 V DC / 230 V AC)
- Ventilation key switch
- Rotary ventilation switch (230 V AC)
- Interface-Module for ventilation

To the product



Control elements

- Room temperature controller
- Hygrostat
- CO2 Air quality sensor

To the product

To the

product



Weather sensors

- Wind sensor Type III
- Rain kompact sensor Typ III (24 V DC / 230 V AC)
- WR-Set Type 7x/8x wind and rain sensor set
- Wall bracket + Pole bracket for wind / rain sensor set
- WRG-Set Wind direction sensor set
- Mast bracket / Wall bracket for wind and rain sensor



Peripheral devices

- Conservatory Control WG 3006
- REL1 Relay for status forwarding
- WRAG2 Wind evaluation unit / Rain evaluation unit

To the product

- REL-WRAG2 Relay for contact multiplier
- Compact distributor housing for WRAG2



Weather station / evaluation devices

- Wind and rain evaluation Type IV
- Wind and rain sensor set Type IV

To the product



Smart Vent Box (SVB)

- SVB Flex
- SVB 0-10 V

To the product

Product overview 03/2023



Part.-No.

Ventilation button

Application: Ventilation button for connection to the ventilation inputs of SHEV or natural ventilation control units



TECHNICAL DATA (Rated values)

Contact type: 2 NO switches Switching capacity: 230 V AC / 10 A

Housing: plastic, white (similar to RAL 9016)
Dimensions (WxHxD): Surface mounting: 81 x 81 x 54 mm
Flush mounting: 81 x 81 x 11 mm

OPEN / CLOSE

Connections: Plug-in terminal 1,5 mm² (rigid wire)

Protection rating: IP20

Picture: Surface mounting

Feature/Equipment

Push buttons without mechanical locking, stop function when both buttons are pushed

Functions:

VERSIONS Surface mounting 529030 Flush mounting (in box ∅60 mm) 529230

Ventilation button 230 V AC

Application: Ventilation button for connection to the push button input of 230 V AC power supplies or for direct control of 230 V AC drives.



TECHNICAL DATA (Rated values)

Contact type: 2 NO switches Switching capacity: max. 230 V AC (10 A)

Housing: plastic, white (similar to RAL 9016)
Dimensions (WxHxD) Surface mounting: 81 x 81 x 54 mm

Flush mounting: 81 x 81 x 11 mm (of visible surfaces)
Connections: Plug-in terminal 1,5 mm² (rigid wire)

Protection rating: IP20

Functions: OPEN/CLOSE dead-man (push to run mode)

Picture: Surface mounting

Feature/Equipment

■ Push buttons with mechanical locking, the drive move as long as a button is pushed

VERSIONS		
Surface mounting	529530	
Flush mounting (in box ∅60 mm)	529630	



Part.-No.

Ventilation key switch

Application: Ventilation button for connection to the ventilation inputs of SHEV or natural ventilation control units



TECHNICAL DATA (Rated values)

Contact type: 2 NO switches Switching capacity: 230 V AC / 10 A

Housing: plastic, white (similar to RAL 9016)
Dimensions (WxHxD): Surface mounting: 81 x 81 x 54 mm
Flush mounting: 81 x 81 x 11 mm
Connections: Plug-in terminal 1,5 mm² (rigid wire)

Protection rating: IP20

Functions: OPEN-STOP-CLOSE

Picture: Surface mounting

Feature/Equipment

■ Switch with semicylinder (DIN 19525) and 3 keys

VERSIONS		
Surface mounting	529350	
Flush mounting (in box ∅60 mm)	529450	

Rotary ventilation switch 230 V AC

Application: Rotary switch for connection to the push button input of 230 V AC power supplies or for direct control of 230 V AC drives.



TECHNICAL DATA (Rated values)

Contact type: 2 NO switches Switching capacity: 230 V AC / 10 A

Housing: plastic, white (similar to RAL 9016)
Dimensions (WxHxD) Surface mounting: 81 x 81 x 54 mm

Flush mounting: 81 x 81 x 11 mm (of visible surfaces) Pluq-in terminal 1,5 mm² (rigid wire)

Connections: Plug-in Protection rating: IP20

Functions: OPEN-STOP-CLOSE

Picture: Surface mounting

Feature/Equipment

Switch with mechanical locking,

VERSIONS		
Surface mounting	529550	
Flush mounting (in box ∅60 mm)	529650	

FAS Interface-Module - for ventilation 533601

Application: When connecting the room sensor, hygrostat or timer to the **EMB 7X00** for signal conversion from permanent contact to short-time pulse



TECHNICAL DATA (Rated values)

Operating voltage: 24 V DC

Housing: plastic, for 35-mm mounting rail

Dimensions (WxHxD): 27 x 50 x 96 mm

Feature/Equipment

■ Module for EMB 8000+ not required.

OPTIONS

Cabinet mounting (a larger housing may be required) 500113



Part.-No.

483200 Room temperature controller

Application: Thermostat as on-off controller for room temperature detection



TECHNICAL DATA (Rated values)

Measuring element: Bimetal switch Contact type: 1 change-over switch 230 V AC / 5 A Switching capacity: $0 - 30 \, ^{\circ}\text{C}$ Settings:

Housing: Surface mounting, plastic, white

Dimensions (WxHxD): 74,5 x 74,5 x 25 mm

Connections: Screw terminal 1,5 mm² (rigid wire)

Protection rating:

Feature/Equipment

■ Connection to **ventilation inputs** of SHEV or natural ventilation control units

Hygrostat 483050

Application: Hygrostat as on-off controller for room humidity detection



TECHNICAL DATA (Rated values)

Measuring element: Bimetal switch Contact type: 1 Change-over switch Switching capacity: 230 V AC / 5 A 35 - 100% humidity Settings: Surface mounting, plastic, white

Housing:

Dimensions (WxHxD): 74,5 x 74,5 x 25 mm

Screw terminal 1,5 mm² (rigid wire) Connections:

Protection rating: IP30

Feature/Equipment

Connection to ventilation input of SHEV or natural ventilation control units

CO2 - Air quality sensor 483710

Application: Sensor for the detection and evaluation of the CO2 concentration inside rooms



TECHNICAL DATA (Rated values)

Operating voltage: 24 V DC (+/-5%) Measuring element: electronic

Contact type: 2 Normal open switch

Pulse duration: 3,5 sec.

230 V AC / 0,5 A Switching capacity: Measuring range: 0 - 3000 ppm CO2

Surface mounting, plastic, white Housing: Dimensions (WxHxD): 78 x 78 x 35 mm

Connections: Screw terminal 1,5 mm² (rigid wire)

IP30 Protection rating:

3 LED (green, yellow, red) Display:

Feature/Equipment

Connection to ventilation input of SHEV or natural ventilation control units



Part.-No.

Wind sensor Type III 482021

Application: Anemometer with 3 impact resistant wind cups (PA6) for wind speed detection.



TECHNICAL DATA (Rated values)

Operating voltage: 24 V DC (+/- 20%)
Measuring principle: Pulse generator, ball beared
Housing: Aluminium Ø36 mm, untreated
Wind cups: PA6, black
Dimensions: 250 x 250 x 80 mm

Connection cable: non-halogen cable, approx. 4 m

Feature/Equipment

■ For connection with: EMB7300 control units, WM Weather-Module (EMB8000), wind/rain controls WRAG2 and Type IV. With clamp ring for fixing on all the wall/pole brackets with outer diameter Ø36mm

COMPONENTS		
Cups for wind sensor Type III	490601	
Clamp ring for wind sensor Type III	515950	

Rain sensor Typ III 24 V DC 480210

Application: Rain sensor with heated sonsor surface and internal control with volt free output contact



TECHNICAL DATA (Rated values)

Operating voltage: 24 V DC (+/- 20%) Standby current: <150 mA

Measuring principle: Conductivity measurement, heated sensor

Hysteresis: 5 min

Display: Output active
Output: Change-over switch, 5 A / max. 48 V

Protection rating: IP65

Housing: Surface mounting, ABS black with bracket (stainless steel)

Dimensions: 100 x 85 x 172 mm

Connection cable: non-halogen cable, approx. 4 m

Feature/Equipment

■ For connection with: EMB7300 control units, WM Weather-Module (EMB8000), wind / rain controls WRAG2 and Type IV

Rain sensor Typ III 230 V AC 480110

Application: Rain sensor with heated sonsor surface and internal control with volt free output contact



TECHNICAL DATA (Rated values)

Operating voltage: 230 V AC (50 Hz)

Power consumption: <1,5 VA

Measuring principle: Conductivity measurement

Display: Output active

Output: Change-over switch, 5 A / max. 230 AC

Protection rating: IP6

Housing: Surface mounting, ABS black with bracket (stainless steel)

Dimensions: 100 x 85 x 172 mm

Connection cable: non-halogen cable, approx. 4 m

Feature/Equipment

■ Single device for the feed from electric mains power supply



Part.-No.

WR-Set Type 7x/8x – Wind and Rain Sensor Set

482100

Application: Sensors for wind and rain to work with an evaluation unit WRAG2 or Typ IV, a WM Weather-Module or directly with a SHEV control unit, for closing and blocking the natural ventilation under bad weather conditions.

TECHNICAL DATA (Rated values)

Rated voltage: 24 V DC (+/- 20%)

Rain sensor Type III heated sensor surface, switch-off delay approx. 5 min.

Contact: 1 Change-over switch, max. 48 V / 5A

Current consumption: <150 mA

Housing: Surface mounting, ABS black with stainless steel bracket

Dimensions (WxHxD): 100 x 85 x 172 mm Connection cable: Non-halogen cable, approx. 4 m

Volt free contac: 1 Change-over switch, max. 48 V / 5 A

Wind sensor Type III Anemometer with 3 impact resistant wind cups (PA6)

Measuring principle: Pulse generator
Dimensions: 250 x 250 x 80 mm

Connection cable: non-halogen cable, approx. 4 m

Feature/Equipment

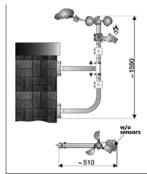
 Set including: Wind sensor Type III (Part.-No. 482021), rain sensor Type III (Part.-No. 480210), clamp ring (Part.-No. 515950), aluminium bracket for pole or wall mounting (Part.-No. 482093), without mounting screws

Wall bracket for wind and rain sensor

491200

Application: Wall bracket with dual fixings for wind and rain sensors

TECHNICAL DATA



Height: app. 1590 mm
Outreach: app. 510 mm
Material: Aluminium Ø36mm

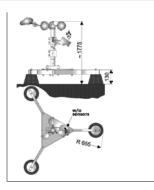
Feature/Equipment

w/o fixing screws and sensors

Pole bracket for wind and rain sensors

491101

Application: Pole bracket for the fixing of wind and rain sensors at flat roofs



TECHNICAL DATA

Height: app. 1775 mm Base area: app. \emptyset 1310 mm

Material: Aluminium Ø36mm with 3 stable concrete feet

Feature/Equipment

■ w/o sensors



Part.-No.

WRG-Set - Wind direction sensor

482120

Sensor for wind direction detecting to work with an evaluation unit or a WM Weather-Module for the wind direction Application:

depending OPENING / CLOSING of windows in case of fire.

Connection cable: Junction box



TECHNICAL DATA (Rated values)

Operating voltage: 24 V DC (+/- 20%)

Wind direction sensor ball beared measuring element with wind vane

Measuring range: 8 wind directions

Material: Revolving head: PA6 black, wind vane: stainless steel

Non-halogen 6 x 0,34 mm², length ca. 3 m with circuit board and screw terminals

WRG, wind sensor Type III, rain sensor TYP III Connections:

Housing (WxHxD): 110 x 110 x 66 mm, IP54

Screw terminals 1,5 mm² (rigid wire), Connections:

Feature/Equipment

■ Set including: Wind direction sensor (Part.-No. 482120), Junction box (Part.-No. 482110), clamp ring (Part.-No. 515950), aluminium bracket for pole or wall mounting (Part.-No. 482093), without mounting screws

Mast bracket / wall bracket for wind and rain sensor

482093

Application: Console for mast mounting or wall mounting made of aluminum (untreated), without fastening screws



TECHNICAL DATA (Rated values)

Pipe elbow

Aluminium (E6/C-0) Material: Dimensions: Ø36 X 2 mm 488,5 mm Length:

Connection piece

AlSi12 Material:

Dimensions (H x D x W): 120 x 80 x 45 mm

Feature/Equipment

Console consisting of pipe elbow and connection piece, with connecting elements M8



Part.-No.

Conservatory Control WG 3006

484001

Application: Control of 230 \

Control of 230 V drives. For opening and closing of conservatories, terraces and balconies canopies - manually and depends on the internal temperature. It may be a 230 V rain sensor can be connected.

WG 3000

TECHNICAL DATA (Rated values)

Operating voltage: 230 V AC

Contact type: 1 change-over switch Switching capacity: 230 V AC / 3 A Settings: 5 – 30 °C

Housing: Surface mounting, plastic, white

Dimensions (WxHxD): 127 x 74 x 24 mm

Connections: Screw terminal 1,5 mm² (rigid wire)

Protection rating: IP30

Feature/Equipment

■ Thermostat with switch hand/automatic and rocker-switch OPEN/CLOSE

REL1 - Relay for status forwarding

659950

Application: For the transmission of various functions or status of a SHEV or natural ventilation control unit to external devices



TECHNICAL DATA (Rated values)

Operating voltage: 24 V DC

Contact type: 3 Change-over switch Switching capacity: 230 V / 10 A

Connections: Screw terminal 1,5 mm² (rigid wire)

Feature/Equipment

With base for installation at 35-mm mounting rail and surpressor diode

OPTIONS

Cabinet mounting (a larger housing may be required) 500113

WRAG2 - Wind / Rain evaluation unit

482005

Application:

For the evaluation of wind and rain signals from wind and rain sensors Type 7x/8x or rain sensors operating with 24 V DC and their transmission via 2 volt free contacts, with additional input for connecting of ventilation buttons (or time switches etc.).



TECHNICAL DATA (Rated values)

Operating voltage: 230 V AC, 50 Hz Standby consumption: <100 mA

Inputs: Rain sensor 24 V DC, wind sensor, ventilation button

Display: Power, wind, rain

Wind speed range: 2,5 – 20 m/s, adjustable

Outputs: 2 Change-over switches, 230 V AC / 5 A

Housing: plastic, surface RAL 7035, bottom RAL 7021

Dimensions (WxHxD): 105 x 86 x 58 mm Installation: 35-mm mounting rail

Connections: Screw terminals 1,5 mm² (rigid wire)

Protection rating: IP40

Feature/Equipment

Signal transmission for wind or/and rain (separately or together) adjustable via 4 DIP switches, direct connection of drives up to max. 5 A, switch-on time delay for wind and rain signal, and switch-off time delay for wind signal



Part.-No.

REL-WRAG2 - Relay for contact multiplier

487020

Application: Relay as contact multiplier of output signals of wind and rain evaluation unit WRAG2



TECHNICAL DATA (Rated values)

230 V AC, 50 Hz Operating voltage: Contact type: 2 Change-over switches 230 V / 8 A

Switching capacity:

Connections: Screw terminal 1,5 mm² (rigid wire)

Feature/Equipment

■ With base for installation on 35-mm mounting rail

Compact distributor housing for WRAG2

482011

Application: Surface mounting distributor housing for the installation and wiring of wind and rain evaluation WRAG2 and max. 2 relays.



TECHNICAL DATA

Material: plastic (ABS) Type of installation: Surface mounting Protection rating: Dimensions (WxHxD): 182 x 180 x 82 mm

2 REL-WRAG2 Reserve space:

Feature/Equipment

- without fixing screws
- without cover strips

Distributor housing for WRAG2

482015

Application: Surface mounting distributor housing for the installation and wiring of wind and rain evaluation WRAG2 and max. 6 relays.



TECHNICAL DATA

Material: plastic (ABS) Type of installation: Surface mounting IP30 Protection rating: Dimensions (WxHxD): 303 x 245 x 95 mm 6 REL-WRAG2 Reserve space:

- without fixing screws
- without cover strips



Part.-No.

Wind and rain evaluation Type IV

482008

Application: For the evaluation of wind and rain signals from wind and rain sensors Type 7x/8x or rain sensors operating

with 24 V DC and their transmission via 3 volt free contacts.



Operating voltage: 230 V AC, 50 Hz Standby current: <100 mA

Inputs: Rain sensor 24 V DC, wind sensor

Display: Power, wind, rain Wind speed range: 2,5 – 10 m/s, adjustable

Outputs: 3 Change-over switches, 5 A / 230 V AC

Housing: plastic, surface RAL 7035, bottom RAL 7021

Dimensions (WxHxD): 212 x 180 x 80 mm Installation: Surface mounting

Connections: Screw terminal 1,5 mm² (rigid wire)

Protection rating: IP40

Feature/Equipment

■ Direct connection of drives up to max. 5 A, switch-on time delay for wind and rain signal, and switch-off time delay for wind signal

■ Suitable for surface mounting

Wind and rain sensor set Type IV

481990

Application: Set consisting of wind and rain evaluation Type IV with wind and rain sensor set Type 7x/8x, for the evaluation of wind and rain signals and their transmission via 3 volt-free contacts.

TECHNICAL DATA

See wind and rain control unit Type IV and wind and rain sensor set Type 7x/8x.



Feature/Equipment

Set including: Wind and rain evaluation (Part.-No. 482008), Wind sensor Type III (Part.-No. 482021), rain sensor Type III (Part.-No. 519950), bracket for pole or wall mounting (Part.-No. 482093), without mounting screws



Part.-No.

SVB Flex - Smart Vent Box Flex 660110

Application: for digital control of the running direction "OPEN" or "CLOSE" at Aumüller drives 24 V DC - S12



TECHNICAL DATA (Rated values)

Rated voltage: 24 V DC (19 - 28 V DC)
Connection: 1x drive group

1x input for external superordinate signals1x ventilation button connection

Ambient temperature range: -5°C to +40°C Dimensions (WxHxD): 40,5 x 48,5 x 28,3 mm

Connection terminals: 9x spring terminals, max. 1,5 mm²

Protection rating: IP20

Feature/Equipment

■ With 9x spring terminals for connection at **Aumüller** drives 24 V DC - S12

SVB 0-10 V - Smart Vent Box 0-10 V

660120

Application: for analog control of the running direction "OPEN" or "CLOSE" at Aumüller drives 24 V DC - S12



TECHNICAL DATA (Rated values)

Rated voltage: 24 V DC (19 - 28 V DC)Connection: 1x drive group

1x input for external superordinate signals

1x 0 - 10 V input 1x report output -5°C to +40°C

Ambient temperature range: -5°C to $+40^{\circ}\text{C}$ Dimensions (WxHxD): $40,5 \times 48,5 \times 28,3 \text{ mm}$

Connection terminals: 9x spring terminals, max. 1,5 mm²

Protection rating: IP:

Feature/Equipment

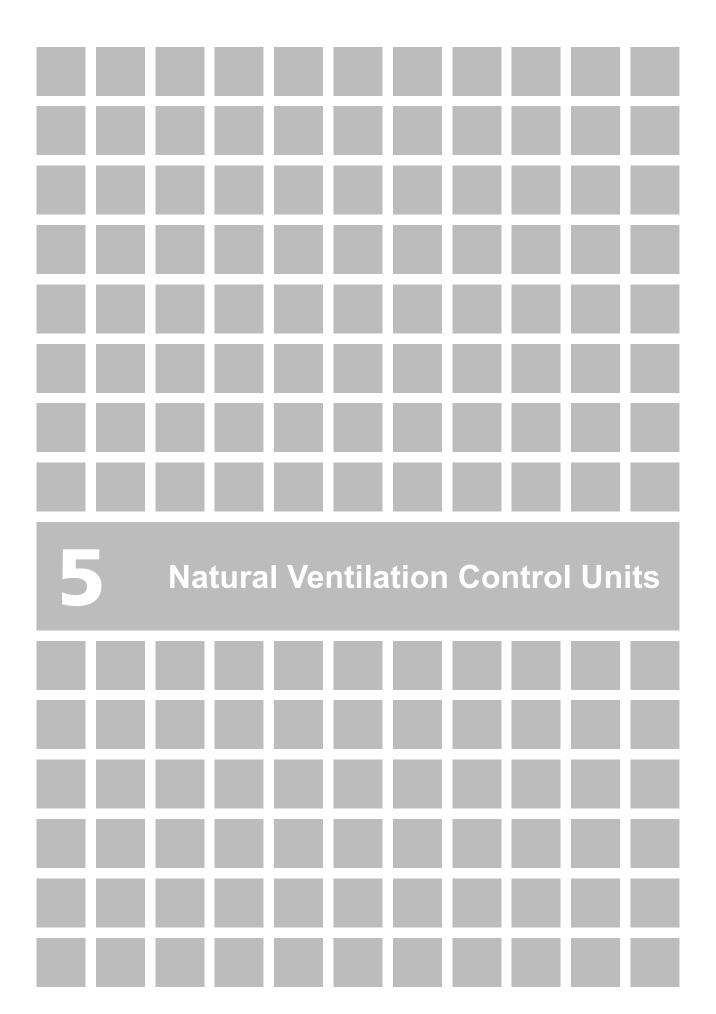
■ With 9x spring terminals for connection at **Aumüller** drives 24 V DC - S12

For this product series, a Type III Environmental Product Declaration (EPD) was issued according to ISO 14025 and EN 15804.

The LCA results of the different product types are listed at the end of this product catalogue.

The EPD documents can be viewed or downloaded from our homepage www.aumueller-gmbh.de.

aumüller**•**







General information about this product

- Product features Lüftungszentralen und Netzteile
- Simplified diagramm LZ6

To the information



Natural ventilation control unit

- LZ1 2,5 A Natural ventilation control unit 24 V DC
- LZ6 Natural ventilation control unit 24 V DC

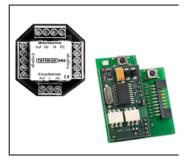
To the product



Power supply - 230 V AC / 24 V DC

- NT-T-2,5 Power supply 230 V AC / 24 V DC, 2,5 A
- NT-S-6,5 Power supply 230 V AC / 24 V DC, 6,5 A

To the product



Control Relay - 230 V AC + accesories

- Universal Control Relay for one 230 V AC drive
- Relay Interface for two 230 V AC drives
- BI-K KNX Interface LZ1 / LZ6 / EMB7300

To the product

Product overview 03/2023 5/11





FEATURES OF NATURAL VENTILATION - CONTROL UNITS AND POWER SUPPLIES

- Control units with accessories like weather sensors and control panels for the control of drives
- 24 V DC for natural ventilation purpose within rooms or buildings
- Low residual ripple output voltage (<2 Vpp)
- Inputs of two or more control units may be switched in parallel
- Connection of various control units in one ventilation group
- Ventilation button inputs with OPEN-STOP-CLOSE function and 2 or 3 priorities
- Vent. push button inputs configurable in dead-man or jog-switch mode
- All drive line outputs are fused
- Input for higher-ranked e.g. volt free wind and rain signals
- Suitable for the use in controlled natural ventilation systems
- Various display and control elements
- Flat surface mounted housings, suitable for the installation in false floor or suspended ceilings
- Optional BUS interface for integration into GLT systems via KNX
- Digital interface for Aumüller S12 drives

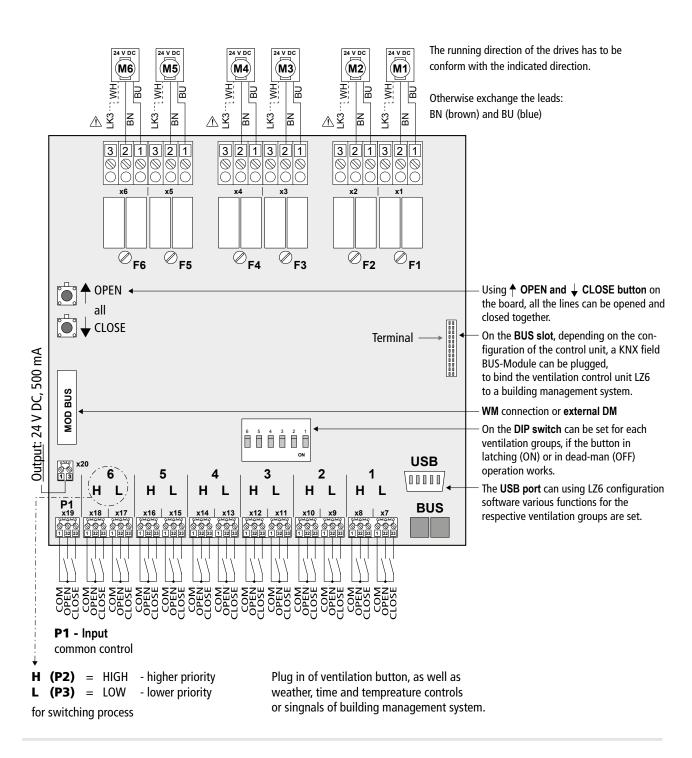
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SIMPLIFIED DIAGRAMM - LZ6





Part.-No.

LZ1 2,5 A - Natural ventilation control unit 24 V DC

Application: Natural ventilation control panel with power supply for the controlling of 24 V DC drives in one ventilation group.



TECHNICAL DATA (Rated values)

Operating voltage: 230 V AC (195 – 253 V AC, 50/60 Hz)

Power consumption: 60 W

Output voltage: 24 V DC (20 – 28 V DC / 2 Vpp)

Output current: 2,5 A

Inputs: 1x Ventilation button line with 3 prorities

Outputs: 1x Drive line

24 V DC / 500 mA (e.g. rain sensor)

Display: Power, output voltage switched in OPEN/CLOSE direction

Slot: BUS-Module (KNK)

Connections: S12 drives (for communication with BUS-Modules)

Housing: Surface mounting, plastic (ABS)

Dimensions (WxHxD): **180 x 130 x 60 mm**

Connection terminals: Screw terminals 2,5 mm² (rigid wire)

Protection rating: IP54

Feature/Equipment

- DIP switch for the configuration of the inputs with low priority in jog-switch or dead-man mode
- Inputs of various LZ1 and/or LZ6 are switchable in parallel
- With the BUS-Module it is possible to control drives with internal intelligent cut-off switch S12 for controlled natural ventilation via the bus protocol

VERSIONS				
LZ1 2,5 A	without BI-K - KNX-Interface-Module	660027		
LZ1 2,5 A	including BI-K - KNX-Interface-Module (PartNo.: 683999)	660028		

LZ6 - Natural ventilation control unit 24 V DC

Application: Natural ventilation control panel with power supply for the controlling of 24 V DC drives in 6 ventilation groups.



TECHNICAL DATA (Rated values)

Operating voltage: 230 V AC (195 – 253 V AC, 50/60 Hz)

Max. power consumption: 506 W / 805 W / 1518 W
Output voltage: 24 V DC (20 – 28 V DC / 0,5 Vpp)

Output current: 10 A / 24 A / 30 A

Inputs: 6x Ventilation button lines with 2 prorities

(P3: LOW; P2: HIGH)

1x Input all outputs OPEN/CLOSE (P1)

Outputs: 6x Drive output lines

24 V DC / 500 mA (e.g. rain sensor)

Display: Power, output voltage switched in OPEN/CLOSE direction

Slot: for optional BUS-Module (KNX)

Housing: Surface mounting, steel sheet, RAL 7035 (light grey)

Dimensions (WxHxD): 420 x 300 x 144 mm

Connection terminals: Screw terminals 2,5 mm² (rigid wire)

Protection rating: IP30

- DIP switch for the configuration of the inputs with low priority in jog-switch or dead-man mode
- Inputs of various LZ1 and/or LZ6 are switchable in parallel
- All outputs are fused

VERSIONS				
LZ6 10 A	Output current: 6 x 1,6 A	660070		
LZ6 24 A	Output current: 6 x 4,0 A	660071		
LZ6 30 A	Output current: 6 x 5,0 A	660072		



Part.-No.

NT-T-2,5 - Power supply 230 V AC / 24 V DC, 2,5 A

660009

Application: Power supply with transformer for the controlling of 24 V DC drives in one ventilation group.

TECHNICAL DATA (Rated values)

Operating voltage: 230 V AC (+/-10%)

Power consumption: 60 W

Output voltage: 24 V DC (21 – 28 V DC)

Output current: 2,5 A

Duty cycle: ED20% (10 min) Ambient temperature range: -5 °C ... +40 °C

Housing: Surface mounting, plastic (ABS)

Dimensions (WxHxD): 94 x 180 x 81 mm

Connection terminals: Screw terminals 2,5 mm² (230 V) / 4 mm² (24 V) (rigid wire)

Protection rating: IP5



Feature/Equipment

Control of OPEN/CLOSE with the 230 V AC power supply voltage

NT-S-6,5 - Power supply 230 V AC / 24 V DC, 6,5 A

660007

Application: Switch mode power supply for the controlling of 24 V DC drives in one ventilation group.

TECHNICAL DATA (Rated values)

Operating voltage: 230 V AC (195 – 253 V AC, 50/60 Hz)

Power consumption: 460 W

Output voltage: 24 V DC (2 Vpp)

Output current: **6,5 A**

Duty ratio: ED30% (10 min) Ambient temperature range: -5 °C ... +40 °C

Housing: Surface mounting, plastic (ABS)

Dimensions (WxHxD): 160 x 250 x 55 mm

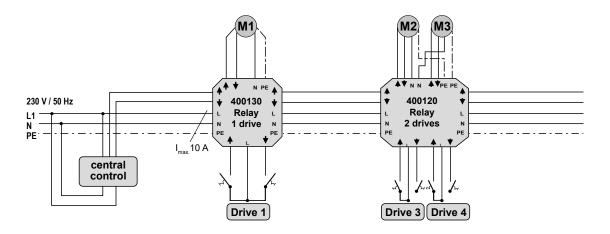
Connection terminals: Screw terminals 4 mm² (rigid wire)

Protection rating: IP54

- Control of OPEN/CLOSE with the 230 V AC power supply voltage
- Max. 8 power supplies may be switched in parallel



SIMPLIFIED DIAGRAMM - CONTROL RELAY



ORDER DATA

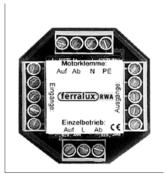
Application:

Part.-No 400130

Universal Control Relay for 1 drive 230 V AC

Control Relay for the single or group-wise control of 1 drive 230 V AC,

suitable for the installation in a flush-mounted junction box behind the ventilation button.



TECHNICAL DATA (Rated values)

230 V AC (+/-10%), 50 Hz Operating voltage:

Output voltage: 230 V AC Current consumption relay: 10 mA Operating capacity: 5 A

Duty cycle: ED30% (10 min) Ambient temperature range: 0 °C ... +60 °C

Connections: 1 Ventilation button 230 V AC 1 Central OPEN/CLOSE (input / output)

1 Drive 230 V AC / 5 A

Operating mode: Dead-man mode

Plastic (ABS), for flush mounting junction box \varnothing 60 mm Housing:

Dimensions (WxHxD): 46 x 52 x 30 mm

Connection terminals: Screw terminal 1,5 mm² (rigid wire)

Protection rating: IP20

Feature/Equipment

- Every Control Relay has an inputs and outputs for looping through of a higher priority command (i.e. from ventilation buttons or time switch) and the power supply
- The ventilation input controls the modul-own drive output only

Relay Interface for 2 drives 230 V AC

400120

Application: Relay Interface for the single or group-wise control of 2 drives 230 V AC,

Output voltage:

suitable for the installation in a flush-mounted junction box behind the ventilation button.



TECHNICAL DATA (Rated values)

Operating voltage: 230 V AC (+/-10%), 50 Hz 230 V AC

10 mA Current consumption relay: 5 A per output Operating capacity: Duty cycle: ED30% (10 min) Ambient temperature range: 0 °C ... +60 °C

2 Ventilation buttons 230 V AC Connections: 1 Central OPEN/CLOSE (input / output)

2 Drives 230 V AC / 5 A Operating mode: Dead-man mode

Plastic (ABS), for flush mounting junction box Ø70 mm Housing:

Dimensions (WxHxD): 60 x 60 x 30 mm

Connection terminals: Screw terminal 1,5 mm² (rigid wire)

Protection rating: IP20

- Every Relay Interface has an inputs and outputs for looping through of a higher priority command (i.e. from ventilation buttons or time switch) and the power supply
- Each ventilation input controls its own drive output only



Part.-No.

BI-K - KNX Interface LZ1 / LZ6 / EMB 7300

Application: Plug-in card for communication between the controllers Aumüller LZ1, LZ6 and EMB 7300 to the KNX BUS system.



TECHNICAL DATA

Rated voltage: 24 V DC

Ambient temperature range: $-5^{\circ}\text{C} \dots + 40^{\circ}\text{C}$ Relative humidity: (no condensate) 5% ... 90%

Data points: (no condensate) 5% ... 90% up to 16 pieces per drive line

BUS current: 9mA

Housing: without (assembled PCB)

Dimensions (WxH): 51 x 42 mm

Connection terminals: 2 x 2 x 0,8 mm (KNX-BUS-Terminal)

Feature/Equipment

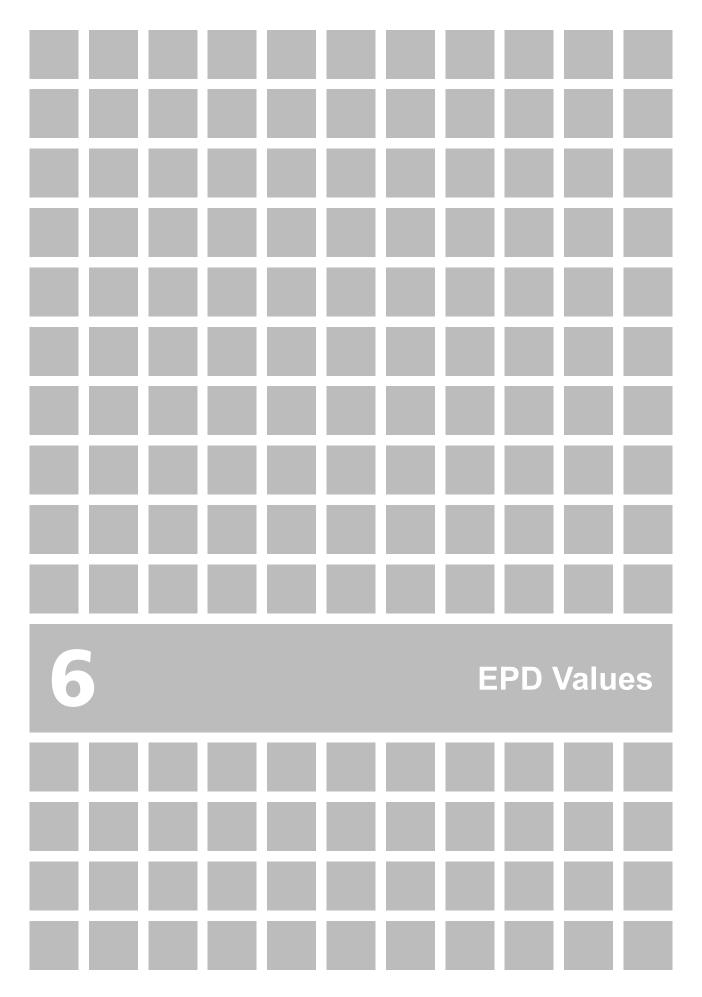
■ Data of the control (e.g. drive position) are sent on the KNX-BUS.

■ The controls received direct orders from the KNX-BUS (e.g. position information, weather data).

■ The licensed version of the "EMB compact configurator" required - for commissioning.

VERSIONS								
PartNo.								
683999	Delivery in parcel	for customer self-installation						
683999-9	Module factory fitted	factory fitted and fully wired						

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	GWP (green- house potential)	Ozone depletion potential	Acidification potential	Eutrophication potential	Photo- chemical oxidation potential	Abiotic depletion - elements	Abiotic depletion - fossil	Primary energy not renewable	Primary energy renewable	Freshwater consump- tion
	(GWP 100)	(ODP)	(AP)	(EP)	(POCP)	(ADP _{el.})	(ADP _{fos})	(PE _{n req})	(PE _{req})	(H ₂ O)
	kg CO ₂ - equivalent	kg R11- equivalent	kg SO ₂ - equivalent	kg PO ₄ ³⁻	kg C₂H₄- equivalent	kg Sb- equivalent	MJ	MJ	МЈ	m³
control units										
7300 2A	4,31E+01	6,03E-06	3,85E+02	3,48E+01	2,46E+01	6,07E-02	4,65E+02	5,89E+02	1,36E+02	2,12E+01
7300 5A	4,31E+01	6,03E-06	3,85E+02	3,48E+01	2,46E+01	6,07E-02	4,65E+02	5,89E+02	1,36E+02	2,12E+01
7300 10A	1,72E+02	2,41E-05	1,54E+03	1,39E+02	9,84E+01	2,43E-01	1,86E+03	2,36E+03	5,44E+02	8,49E+01
7300 20A	3,45E+02	4,82E-05	3,08E+03	2,79E+02	1,97E+02	4,86E-01	3,72E+03	4,71E+03	1,09E+03	1,70E+02
8000+ 5A	8,62E+01	1,21E-05	7,71E+02	6,97E+01	4,92E+01	1,21E-01	9,30E+02	1,18E+03	2,72E+02	4,25E+01
8000+ 10A	1,72E+02	2,41E-05	1,54E+03	1,39E+02	9,84E+01	2,43E-01	1,86E+03	2,36E+03	5,44E+02	8,49E+01
8000+ 24A	4,14E+02	5,79E-05	3,70E+03	3,35E+02	2,36E+02	5,83E-01	4,47E+03	5,66E+03	1,30E+03	2,04E+02
8000+ 48A	8,27E+02	1,16E-04	7,40E+03	6,69E+02	4,72E+02	1,17E+00	8,93E+03	1,13E+04	2,61E+03	4,08E+02
8000+ 72A	1,24E+03	1,74E-04	1,11E+04	1,00E+03	7,09E+02	1,75E+00	1,34E+04	1,70E+04	3,91E+03	6,11E+02
LZ1	4,31E+01	6,03E-06	3,85E+02	3,48E+01	2,46E+01	6,07E-02	4,65E+02	5,89E+02	1,36E+02	2,12E+01
LZ6 24	4,14E+02	5,79E-05	3,70E+03	3,35E+02	2,36E+02	5,83E-01	4,47E+03	5,66E+03	1,30E+03	2,04E+02
LZ6 30	5,17E+02	7,23E-05	4,62E+03	4,18E+02	2,95E+02	7,28E-01	5,58E+03	7,07E+03	1,63E+03	2,55E+02
controllers										
NT-T2,5	4,31E+01	6,03E-06	3,85E+02	3,48E+01	2,46E+01	6,07E-02	4,65E+02	5,89E+02	1,36E+02	2,12E+01
NT-S 6,5	1,12E+02	1,57E-05	1,00E+03	9,06E+01	6,40E+01	1,58E-01	1,21E+03	1,53E+03	3,53E+02	5,52E+01
HSE	7,18E-02	1,00E-08	6,42E-01	5,81E-02	4,10E-02	1,01E-04	7,75E-01	9,82E-01	2,27E-01	3,54E-02
WR-Set7x/8x	1,44E-01	2,01E-08	1,28E+00	1,16E-01	8,20E-02	2,02E-04	1,55E+00	1,96E+00	4,53E-01	7,08E-02
RS TIII 24	1,08E-01	1,51E-08	9,63E-01	8,71E-02	6,15E-02	1,52E-04	1,16E+00	1,47E+00	3,40E-01	5,31E-02
RS TIII 230	1,08E+00	1,51E-07	9,63E+00	8,71E-01	6,15E-01	1,52E-03	1,16E+01	1,47E+01	3,40E+00	5,31E-01
WRAG2	3,59E-01	5,02E-08	3,21E+00	2,90E-01	2,05E-01	5,06E-04	3,88E+00	4,91E+00	1,13E+00	1,77E-01
WRA TypIV	7,18E-01	1,00E-07	6,42E+00	5,81E-01	410E-01	1,01E-03	7,75E+00	9,82E+00	2,27E+00	3,54E-01
WR-ST IV	1,44E+00	2,01E-07	1,28E+01	1,16E+00	8,20E-01	2,02E-03	1,55E+01	1,96E+01	4,53E+00	7,08E-01

Declaration code: M-EPD-SVR-GB-101
Programme operator: ift Rosenheim GmbH

ift Rosenheim GmbH Theodor-Gietl-Str. 7-9,

83026 Rosenheim, Germany
LCA prepared by: Life Cycle Engineering Experts

Berliner Allee 58,

64295 Darmstadt, Germany Declaration holder: AUMÜLLER AUMATIC GmbH.

The declaration is based on the PCR (Product Category Rules) document "Building Components for Smoke and Heat Control Systems" No. PCR-RW-1.1:2013.

LCA calculations were based on the "cradle to grave" life cycle including all upstream processes (e.g. raw material extraction, etc.).

The reference service life has been specified to 25 years. The calculation of the life cycle scenarios is based on a service life of **50 years** per electrical device.

The life cycle was modelled using the sustainability software tool "GaBi6" for the development of Life Cycle Assessments. For the consideration of the impact categories the characterisation factors of the ELCD (European Reference Life Cycle Database) were used.

In accordance with the REACH candidate list, no substances of very high concern are contained.

03/2023 Product overview

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