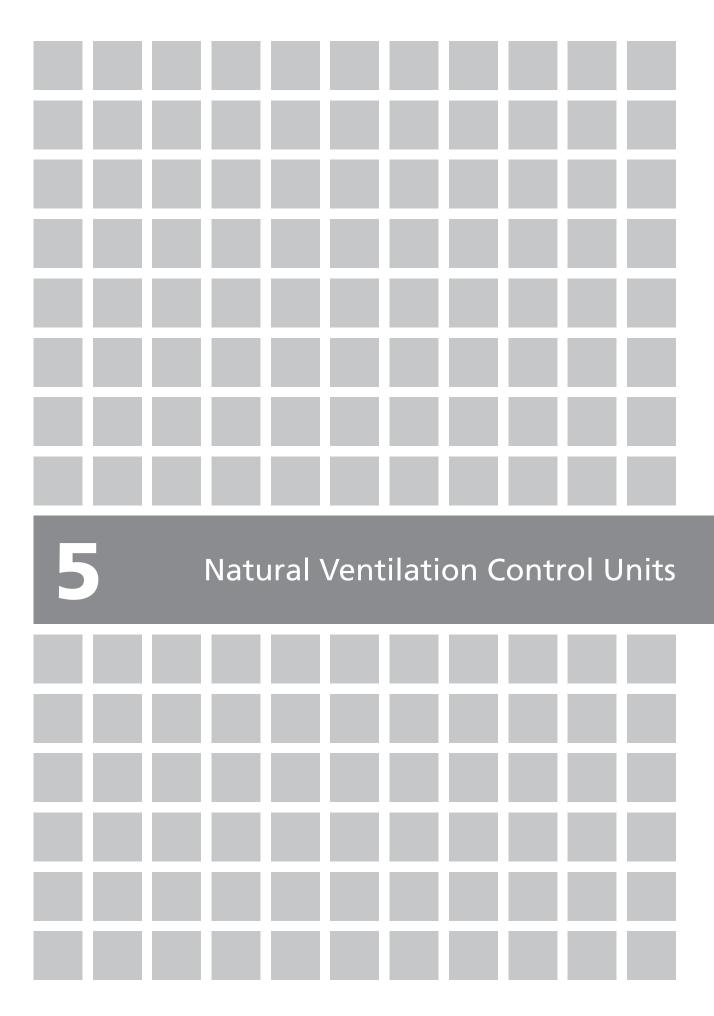
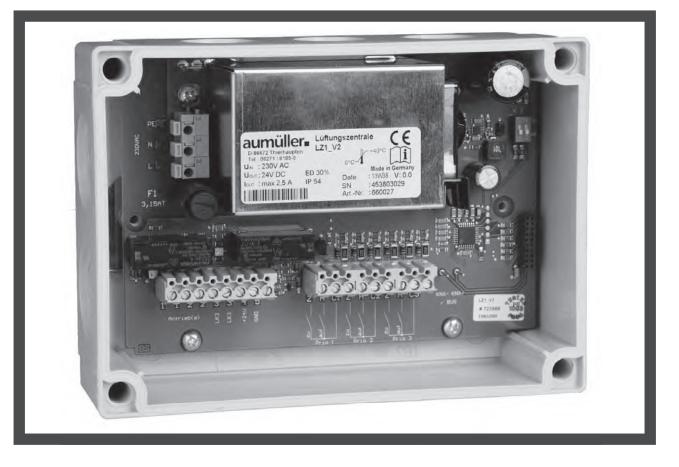
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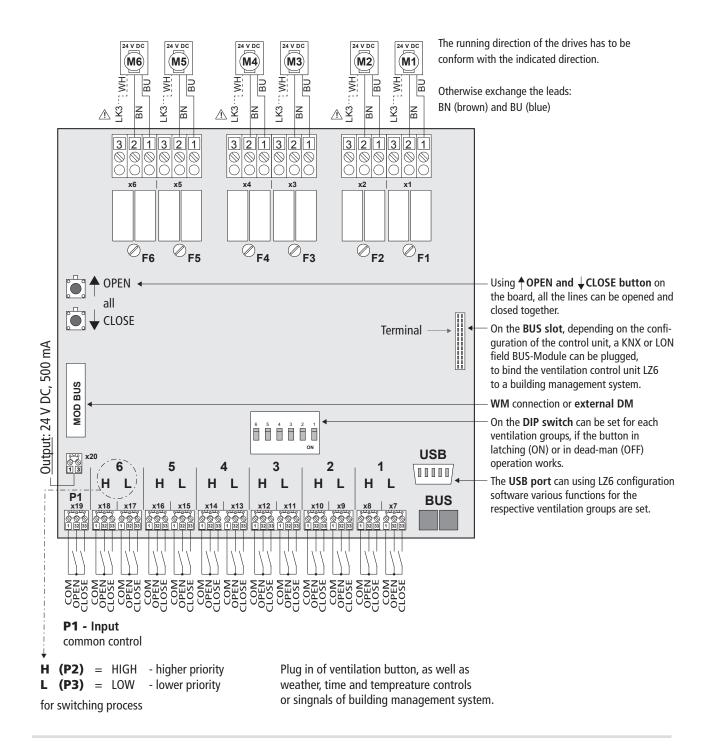
## FEATURES OF NATURAL VENTILATION – CONTROL UNITS AND POWER SUPPLIES

- 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)</p>
- 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 LON and KNX
- Digital interface for AUMÜLLER S12 drives

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**.

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### SIMPLIFIED DIAGRAMM – LZ6



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### **ORDER DATA**

		PartNo.
LZ1 2,5 A – Natural ventilation cor	ntrol unit 24 V DC	
Application: Natural ventilation cont	rol panel with power supply for the con	trolling of 24 V DC drives in one ventilation group.
	<b>TECHNICAL DATA (Rated value</b> Operating voltage: Power consumption: Output voltage: Output current:	s) 230 V AC (195 – 253 V AC, 50/60 Hz) 60 W 24 V DC (20 – 28 V DC / 2 Vpp) 2,5 A
	Inputs: Outputs: Display: Slot: Connections:	1 Ventilation button line with 3 prorities 1 Drive line 24 V DC / 500 mA (e.g. rain sensor) Power, output voltage switched in OPEN/CLOSE direction BUS-Module (LON, KNX) S12 drives (for communication with BUS-Modules)
	Housing: Dimensions (WxHxD): Connection terminals: Protection rating:	Surface mounting, plastic (ABS) <b>180 x 130 x 60 mm</b> Screw terminals 2,5 mm² (rigid wire) IP54
<ul> <li>Feature/Equipment</li> <li>DIP switch for the configuration of</li> <li>Inputs of various 171 and/or 176 ar</li> </ul>	the inputs with low priority in jog-switc	ch 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	<b>including</b> 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)**

	TECHNICAL DATA (Rateu 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:	6 Ventilation button lines with 2 prorities
		(P3: LOW; P2: HIGH)
		1 Input all outputs OPEN/CLOSE (P1)
	Outputs:	6 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 (LON / KNX)
_	Housing:	Surface mounting, steel sheet, RAL 7035 (light grey)
	Dimensions (WxHxD):	420 x 300 x 144 mm
	Connection terminals:	Screw terminals 2,5 mm <sup>2</sup> (rigid wire)
	Protection rating:	IP30

#### 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

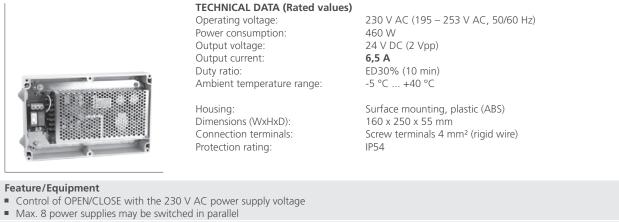
<ul> <li>All outputs are fus</li> </ul>	sed
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VERSIONS				
LZ6 10 A	Output current: 6 x 1,6 A	660070		
LZ6 24 A	Output current: 6 x 4,0 A	660071		
LZ6 30 A	Output current: 6 x 5,0 A	660072		

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#### **ORDER DATA**

		PartNo.
NT-T-2,5 – Power supply 230 V AG	C / 24 V DC, 2,5 A	660009
Application: Power supply with trar	sformer for the controlling of 24 V DC dr	rives in one ventilation group.
	TECHNICAL DATA (Rated value Operating voltage: Power consumption: Output voltage: Output current: Duty cycle: Ambient temperature range: Housing: Dimensions (WxHxD): Connection terminals: Protection rating:	<ul> <li>230 V AC (+/-10%)</li> <li>60 W</li> <li>24 V DC (21 – 28 V DC)</li> <li>2,5 A</li> <li>ED20% (10 min)</li> <li>-5 °C +40 °C</li> <li>Surface mounting, plastic (ABS)</li> <li>94 x 180 x 81 mm</li> <li>Screw terminals 2,5 mm² (230 V) / 4 mm² (24 V) (rigid wire IP54</li> </ul>
Feature/Equipment Control of OPEN/CLOSE with the	230 V AC power supply voltage	
NT-S-6,5 – Power supply 230 V A	C / 24 V DC, 6,5 A	660007
Application: Switch mode power su	pply for the controlling of 24 V DC drives	s in one ventilation group.
		<u>}</u>



PS5 – Switch mode power supply		680005	
Application: Switch mode power supply for fixing on 35-mm mounting rail, for		the external power supply of Ventilation-Modules LZA ar	nd LZH.
COCOCCC COCCCCC COCCCCCCCCCCCCCCCCCCC	<b>TECHNICAL DATA (Rated values)</b> Operating voltage: Max. power consumption: Output voltage: Output current: Ambient temperature range:	230 V AC (195 – 253 V AC, 50/60 Hz) 322 W 24 V DC (20 – 28 V DC / 0,5 Vpp) <b>5 A</b> -5 °C +40 °C	

Housing:

Dimensions (WxHxD):

Connection terminals:

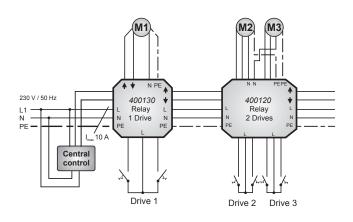
suitable for 35-mm mounting rail 65 x 95 x 123 mm Screw terminals 4 mm<sup>2</sup> (rigid wire)

#### Feature/Equipment

To be intagrated into housing or cabinet

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## SIMPLIFIED DIAGRAMM – CONTROL RELAY



### **ORDER DATA**

			PartNo.
Universal Con	ntrol Relay for 1 driv	re 230 V AC	400130
		ne single or group-wise control of 1 drive allation in a flush-mounted junction box	
Auf Eingange:	Ab N PE Traiux RWA hzelbetrieb:	<b>TECHNICAL DATA (Rated value</b> Operating voltage: Output voltage: Current consumption relay: Operating capacity: Duty cycle: Ambient temperature range: Connections:	<ul> <li>s)</li> <li>230 V AC (+/-10%), 50 Hz</li> <li>230 V AC</li> <li>10 mA</li> <li>5 A</li> <li>ED30% (10 min)</li> <li>0 °C +60 °C</li> <li>1 Ventilation button 230 V AC</li> <li>1 Central OPEN/CLOSE (input / output)</li> <li>1 Drive 230 V AC / 5 A</li> </ul>
Au		Operating mode: Housing: Dimensions (WxHxD): Connection terminals: Protection rating:	Dead-man mode Plastic (ABS), for flush mounting junction box Ø60 mm 46 x 52 x 30 mm Screw terminal 1,5 mm² (rigid wire) 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 supplyThe 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, suitable for the installation in a flush-mounted junction box behind the ventilation button.			
Suitable for the Installation in a flush-mounted junction box be         TECHNICAL DATA (Rated values)         Operating voltage:         Output voltage:         Current consumption relay:         Operating capacity:         Duty cycle:		<ul> <li>s)</li> <li>230 V AC (+/-10%), 50 Hz</li> <li>230 V AC</li> <li>10 mA</li> <li>5 A per output</li> <li>ED30% (10 min)</li> </ul>		

(ferralux)RWA CE COIC

operating voltage.	250 V AC (+/-1070), 50 Hz
Output voltage:	230 V AC
Current consumption relay:	10 mA
Operating capacity:	5 A per output
Duty cycle:	ED30% (10 min)
Ambient temperature range:	0 °C +60 °C
Connections:	2 Ventilation buttons 230 V AC
	1 Central OPEN/CLOSE (input / output)
	2 Drives 230 V AC / 5 A
Operating mode:	Dead-man mode
Housing:	Plastic (ABS), for flush mounting junction box Ø70 mm
Dimensions (WxHxD):	60 x 60 x 30 mm
Connection terminals:	Screw terminal 1,5 mm <sup>2</sup> (rigid wire)
Protection rating:	IP20

#### Feature/Equipment

- 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

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### **ORDER DATA**

		PartNo.
BI-K - KNX Interface LZ1 / LZ6 / EMB 7300		683999
Application: Plug-in card for com	nmunication between the controllers Aum	ULLER LZ1, LZ6 and EMB 7300 to the KNX BUS system.
	TECHNICAL DATA Rated voltage: Ambient temperature range: Relative humidity: Data points: BUS current: Housing: Dimensions (WxH): Connection terminals:	24 V DC -5°C + 40°C (no condensate) 5% 90% up to 16 pieces per drive line 9mA without (assembled PCB) 51 x 42 mm 2 x 2 x 0,8 mm (KNX-BUS-Terminal)
The controls received direct ord	position) are sent on the KNX-BUS. lers from the KNX-BUS (e.g. position inform //B compact configurator" required - for co	
SHEV-Module LZ6		660066
Application: SHEV-Module for co	onnecting of one or more smoke detectors	(max. 10) to a <b>LZ6</b> ventilation control unit.
	TECHNICAL DATA Rated voltage:	24 V DC
	Housing: Dimonsions (WyH):	without (assembled PCB)



Dimensions (WxH):

Ambient temperature range: Relative humidity:

45 x 42 mm

-5 °C ... +60 °C (no condensate) 5% ... 90%

Natural Ventilation Control Units

#### Feature/Equipment

• The smoke detector is triggered with the highest priority and leads to the complete opening of the drives connected to the LZ6. All other ventilation commands are locked. This condition is indicated by the alarm LED.