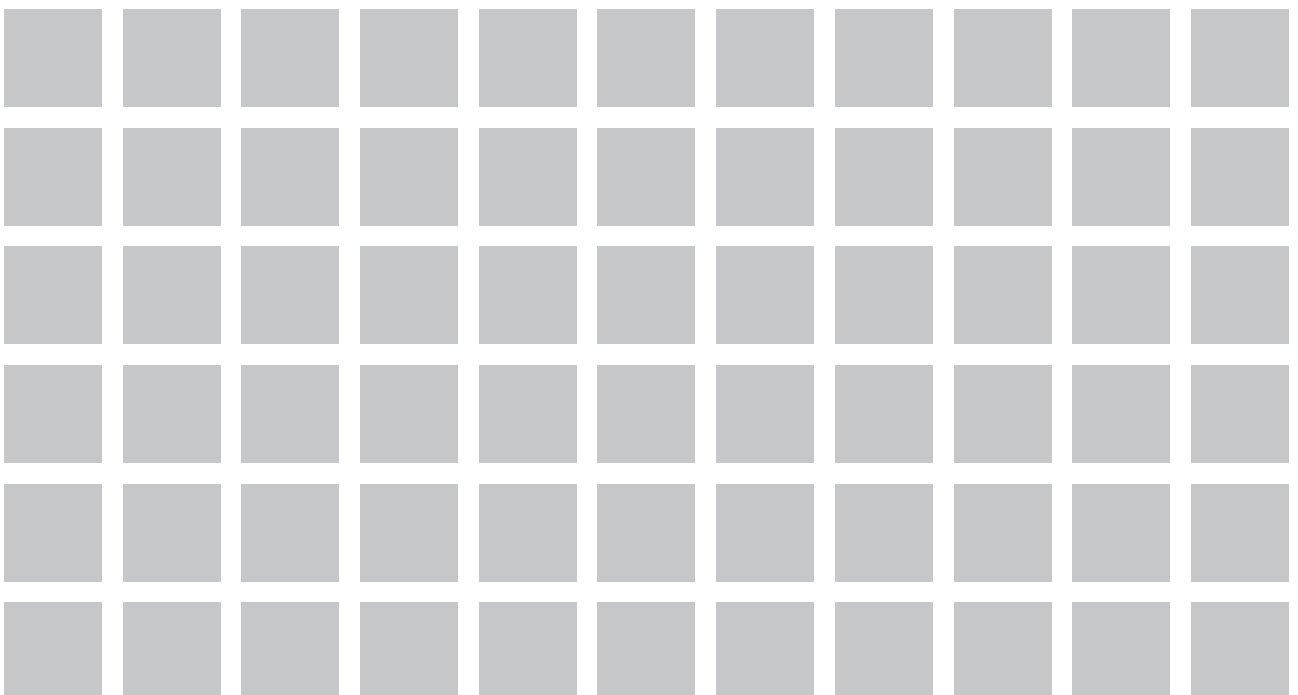
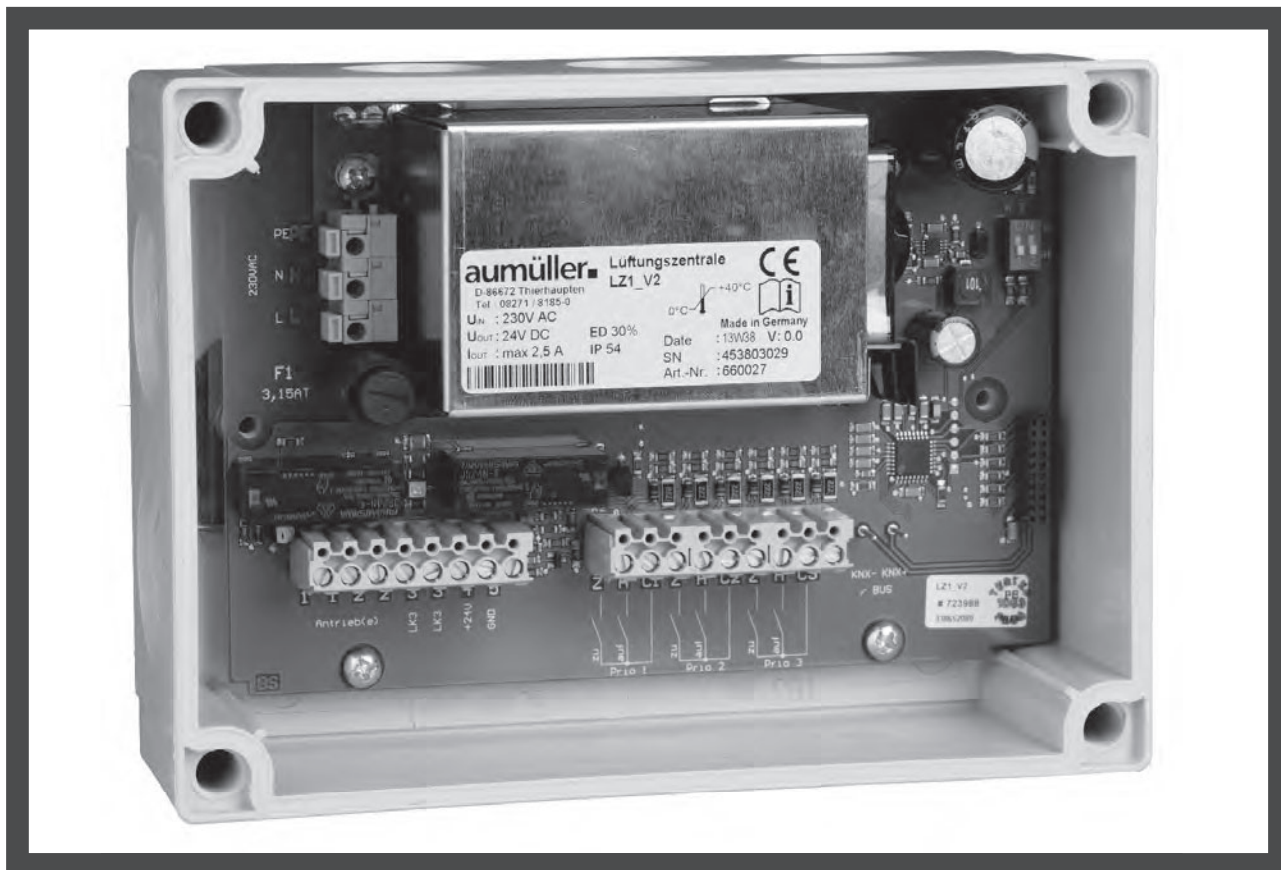


5

Natural Ventilation Control Units





FEATURES OF NATURAL VENTILATION – CONTROL UNITS AND POWER SUPPLIES

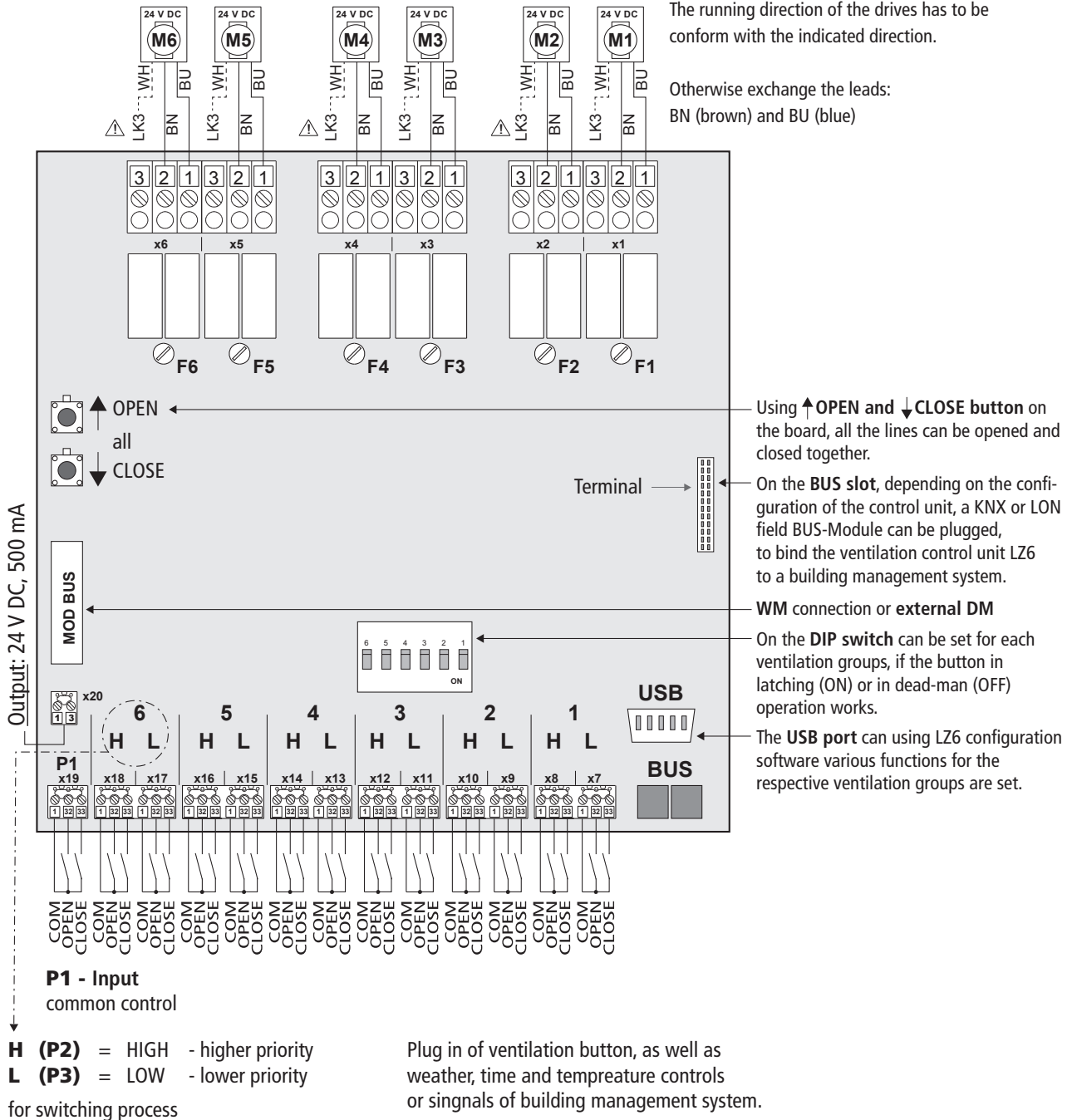
- Control units with accessories like weather sensors and control panels for the control of drives
- 24 V DC for natural ventilation purpose within rooms or buildings
- Low residual ripple output voltage (<2 Vpp)
- Inputs of two or more control units may be switched in parallel
- Connection of various 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 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.aumuller-gmbh.de.

SIMPLIFIED DIAGRAMM – LZ6



ORDER DATA

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:	1 Ventilation button line with 3 priorities
Outputs:	1 Drive line 24 V DC / 500 mA (e.g. rain sensor)
Display:	Power, output voltage switched in OPEN/CLOSE direction
Slot:	BUS-Module (LON, KNX)
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 mm ² (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 (Part.-No.: 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:	6 Ventilation button lines with 2 priorities (P3: LOW; P2: HIGH)
Outputs:	1 Input all outputs OPEN/CLOSE (P1) 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 ² (rigid wire)
Protection rating:	IP30

Feature/Equipment

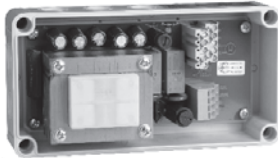
- DIP switch for the configuration of the inputs with low priority in jog-switch or dead-man mode
- Inputs of various LZ1 and/or LZ6 are switchable in parallel
- All outputs are fused

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		

ORDER DATA

Part.-No.

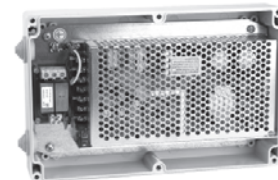
NT-T-2,5 – Power supply 230 V AC / 24 V DC, 2,5 A**660009****Application:** Power supply with transformer for the controlling of 24 V DC drives in one ventilation group.**TECHNICAL DATA (Rated values)**

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: IP54

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

Feature/Equipment

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

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 and LZH.**TECHNICAL DATA (Rated values)**

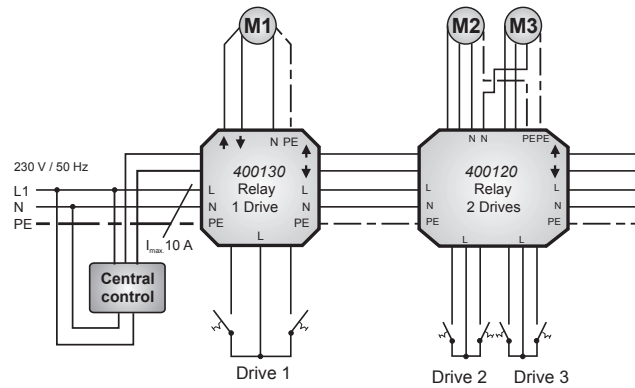
Operating voltage: 230 V AC (195 – 253 V AC, 50/60 Hz)
 Max. power consumption: 322 W
 Output voltage: 24 V DC (20 – 28 V DC / 0,5 Vpp)
 Output current: **5 A**
 Ambient temperature range: -5 °C ... +40 °C

Housing: suitable for 35-mm mounting rail
 Dimensions (WxHxD): 65 x 95 x 123 mm
 Connection terminals: Screw terminals 4 mm² (rigid wire)

Feature/Equipment

- To be integrated into housing or cabinet

SIMPLIFIED DIAGRAMM – CONTROL RELAY



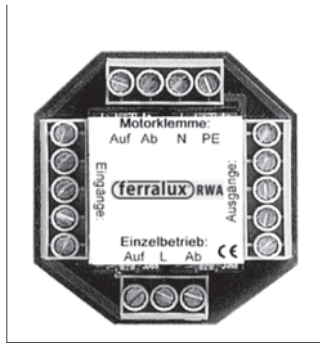
ORDER DATA

Part.-No.

Universal Control Relay for 1 drive 230 V AC

400130

Application: 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)

Operating voltage:	230 V AC (+/-10%), 50 Hz
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
Housing:	Plastic (ABS), for flush mounting junction box Ø60 mm
Dimensions (WxHxD):	46 x 52 x 30 mm
Connection terminals:	Screw terminal 1,5 mm ² (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, suitable for the installation in a flush-mounted junction box behind the ventilation button.



TECHNICAL DATA (Rated values)

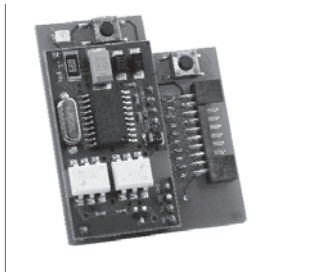
Operating voltage:	230 V AC (+/-10%), 50 Hz
Output voltage:	230 V AC
Current consumption relay:	10 mA
Operating capacity:	5 A per output
Duty cycle:	ED30% (10 min)
Ambient temperature range:	0 °C ... +60 °C
Connections:	2 Ventilation buttons 230 V AC 1 Central OPEN/CLOSE (input / output) 2 Drives 230 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 ² (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

ORDER DATA

		Part.-No.		
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.				



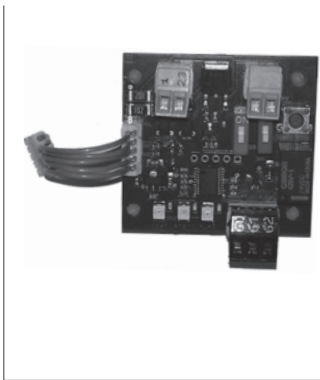
TECHNICAL DATA

Rated voltage:	24 V DC
Ambient temperature range:	-5°C ... +40°C
Relative humidity:	(no condensate) 5% ... 90%
Data points:	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.

SHEV-Module LZ6		660066		
Application: SHEV-Module for connecting of one or more smoke detectors (max. 10) to a LZ6 ventilation control unit.				



TECHNICAL DATA

Rated voltage:	24 V DC
Housing:	without (assembled PCB)
Dimensions (WxH):	45 x 42 mm
Ambient temperature range:	-5 °C ... +60 °C
Relative humidity:	(no condensate) 5% ... 90%

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.