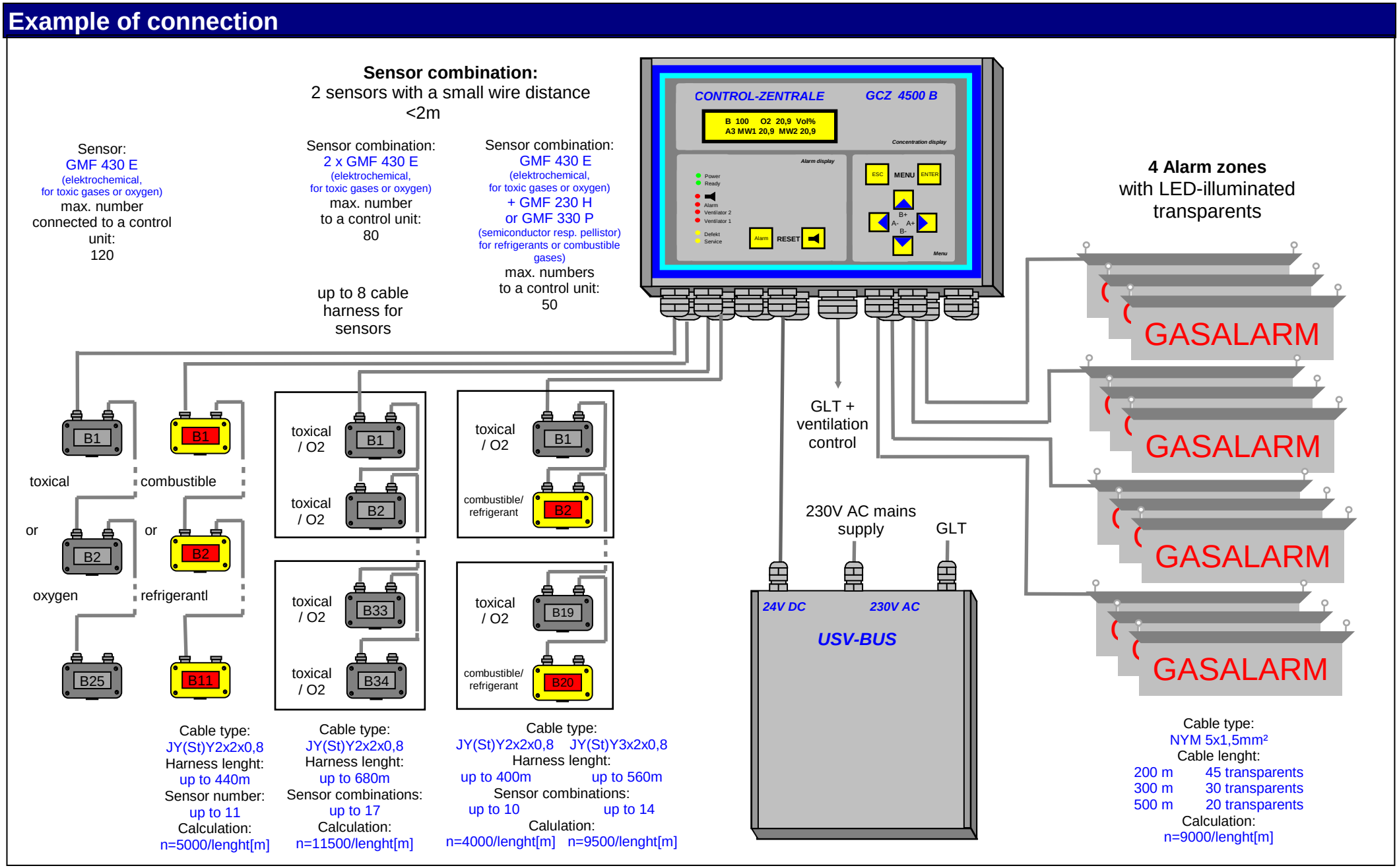
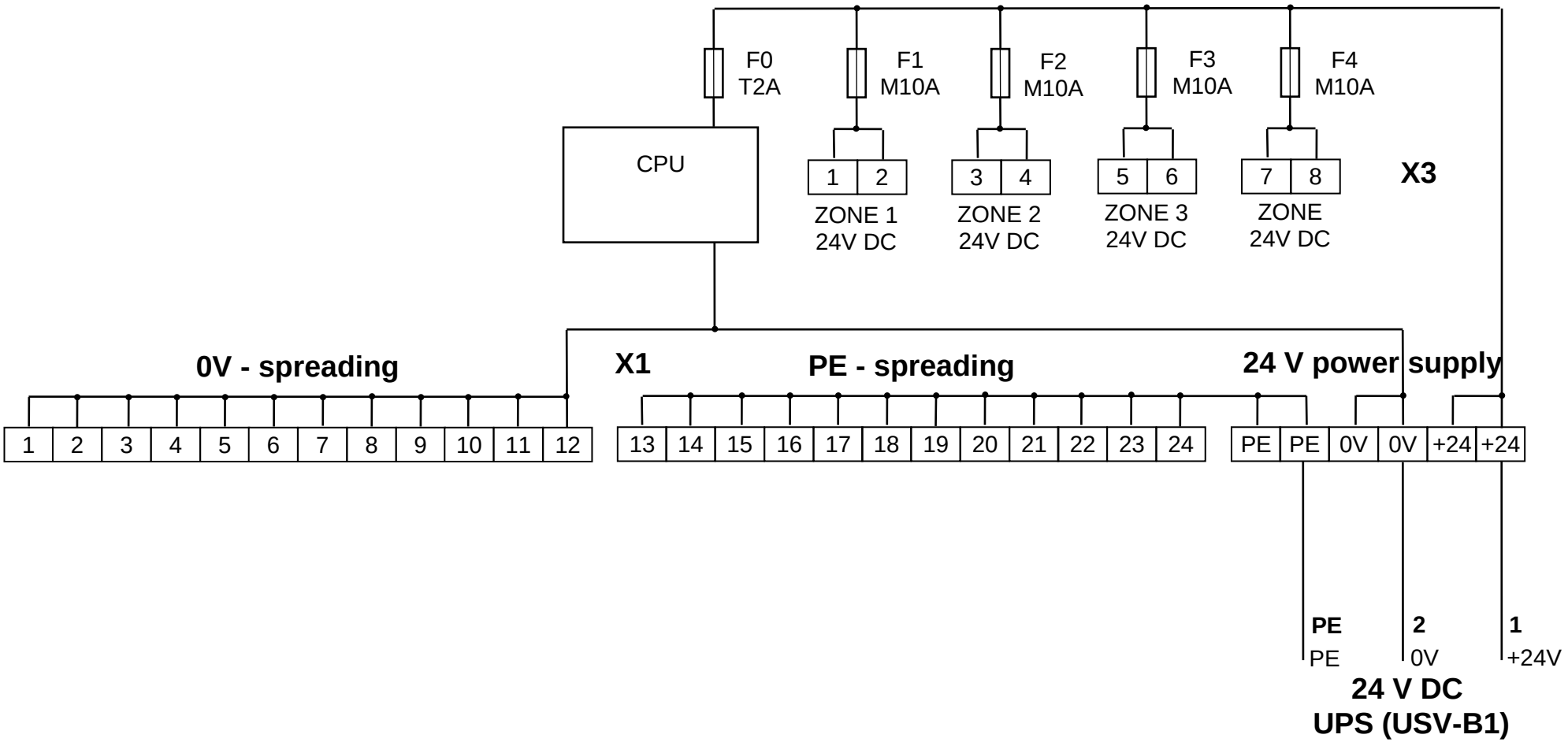
CONNECTION DIAGRAM

GCZ 4500 B
24 V DC

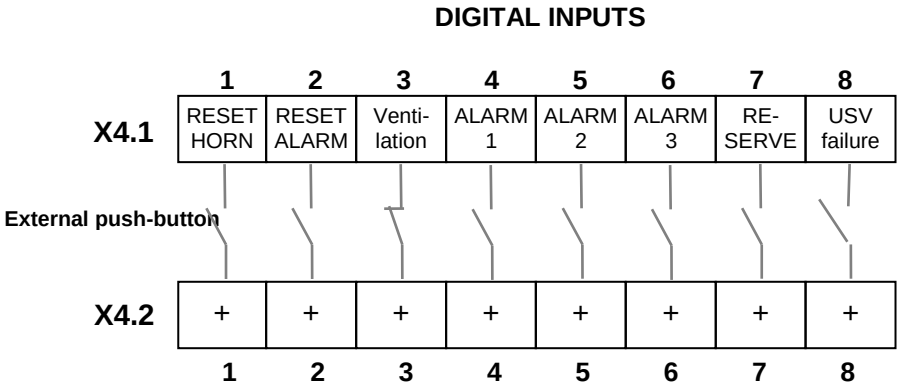
Example of connection



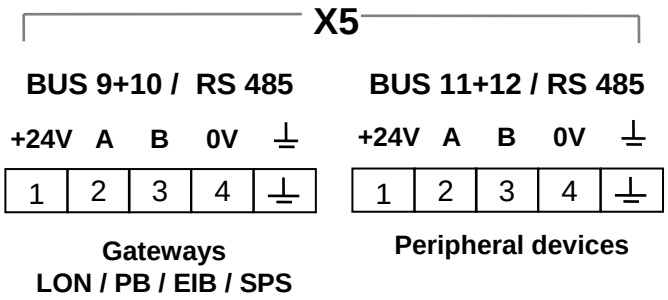
POWER SUPPLY CONNECTION GCZ4500B: 24V



DIGITAL INPUTS X4

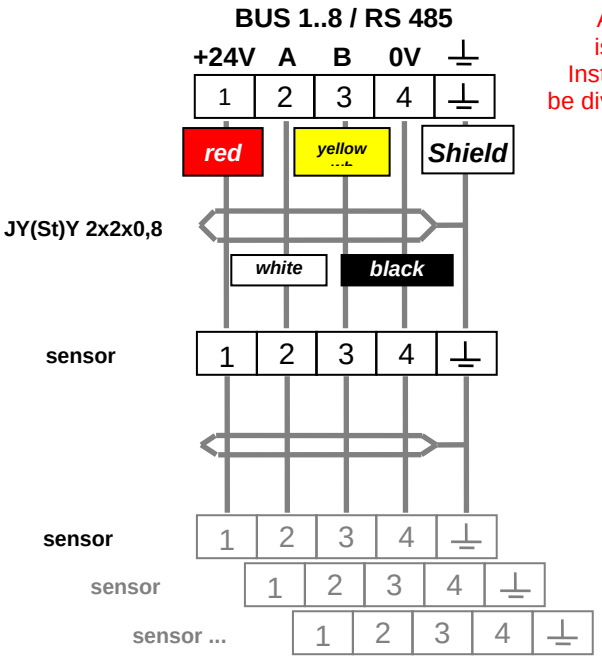


PERIPHERAL DEVICE TERMINAL X5

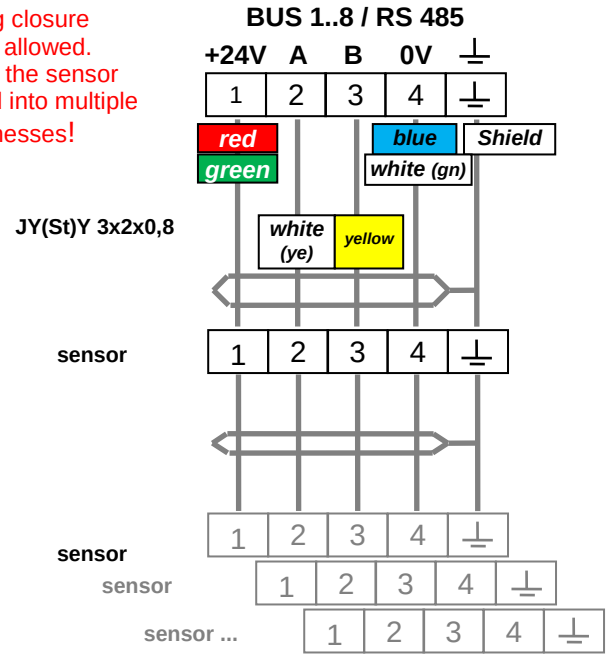


SENSOR CONNECTION X6

max. 8 BUS cable can be connected directly, furthermore via an optional junction-box



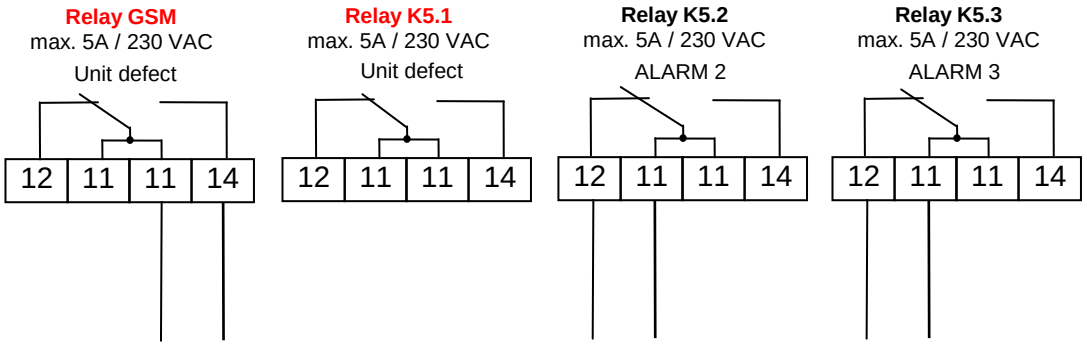
Attention
A ring closure is not allowed. Instead, the sensor be divided into multiple harnesses!



Sensor(combi)	Cable type: JY(St)Y 2x2x0,8		Cabel type: JY(St)Y 3x2x0,8		Max. number of sensors connected to each control unit
	Sensor number n / BUS-harness	max. lenght[m]	Sensor number n / BUS-harness	max. lenght[m]	
GMF 430 E	n = 25000 / lenght[m]	1000	n = 50000 / lenght[m]	1000	100
GMF 430 E + GMF 430 E	n = 11500 / lenght[m]	680	n = 25000 / lenght[m]	1000	50
GMF 330 P	n = 5000 / lenght[m]	440	n = 10000 / lenght[m]	560	32
GMF 430 E + GMF 330 P	n = 4000 / lenght[m]	400	n = 9500 / lenght[m]	560	30
GMF 300 Z	n = 1100 / lenght[m]	600	n = 2100 / lenght[m]	1200	30
GMF 300 Z + GMF 700 IR	n = 320 / lenght[m]	230	n = 600 / lenght[m]	460	30

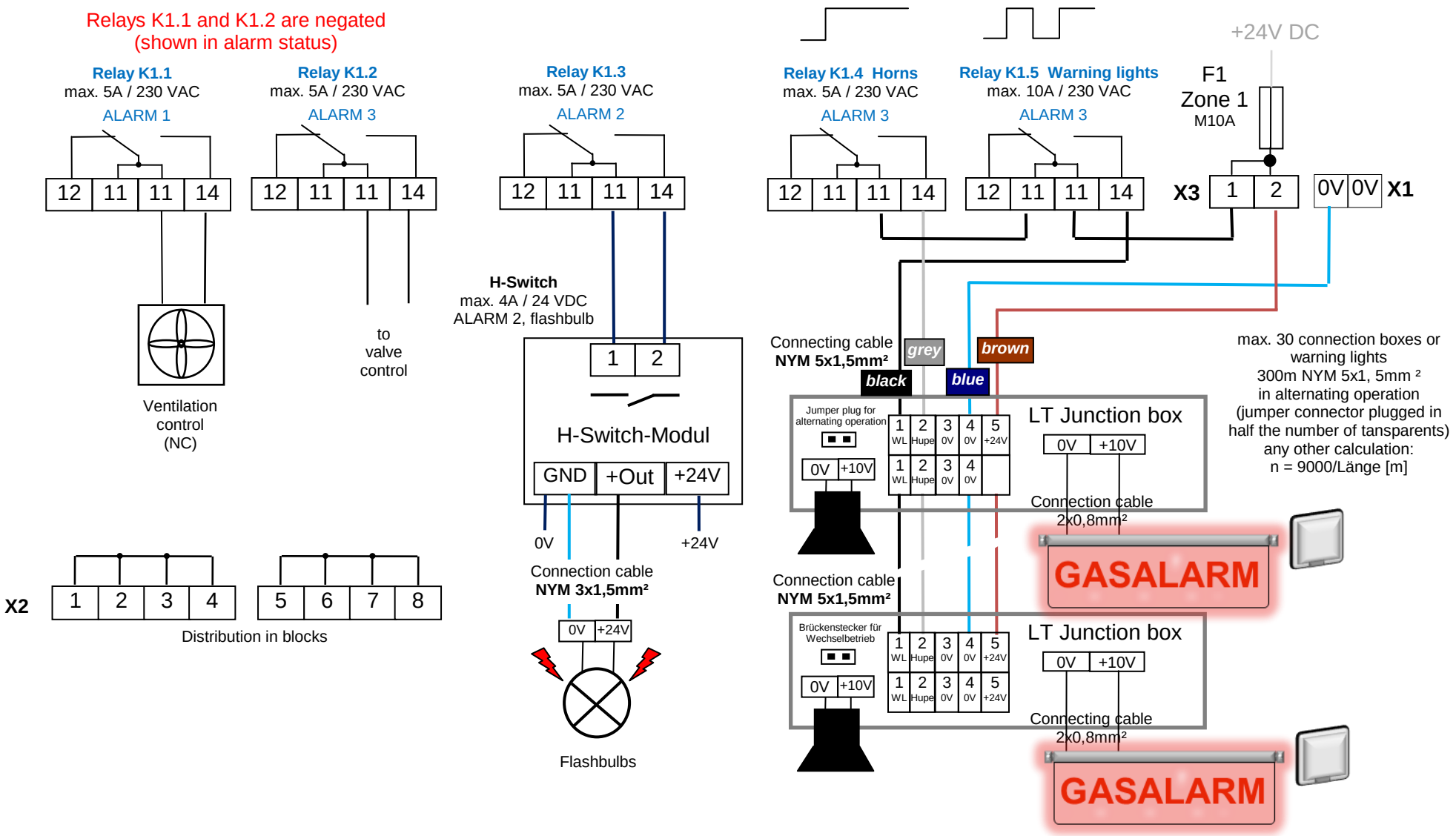
COLLECTIVE ALARM OUTPUTS

Relay GSM and K5.1 are negated
(shown in alarm status)

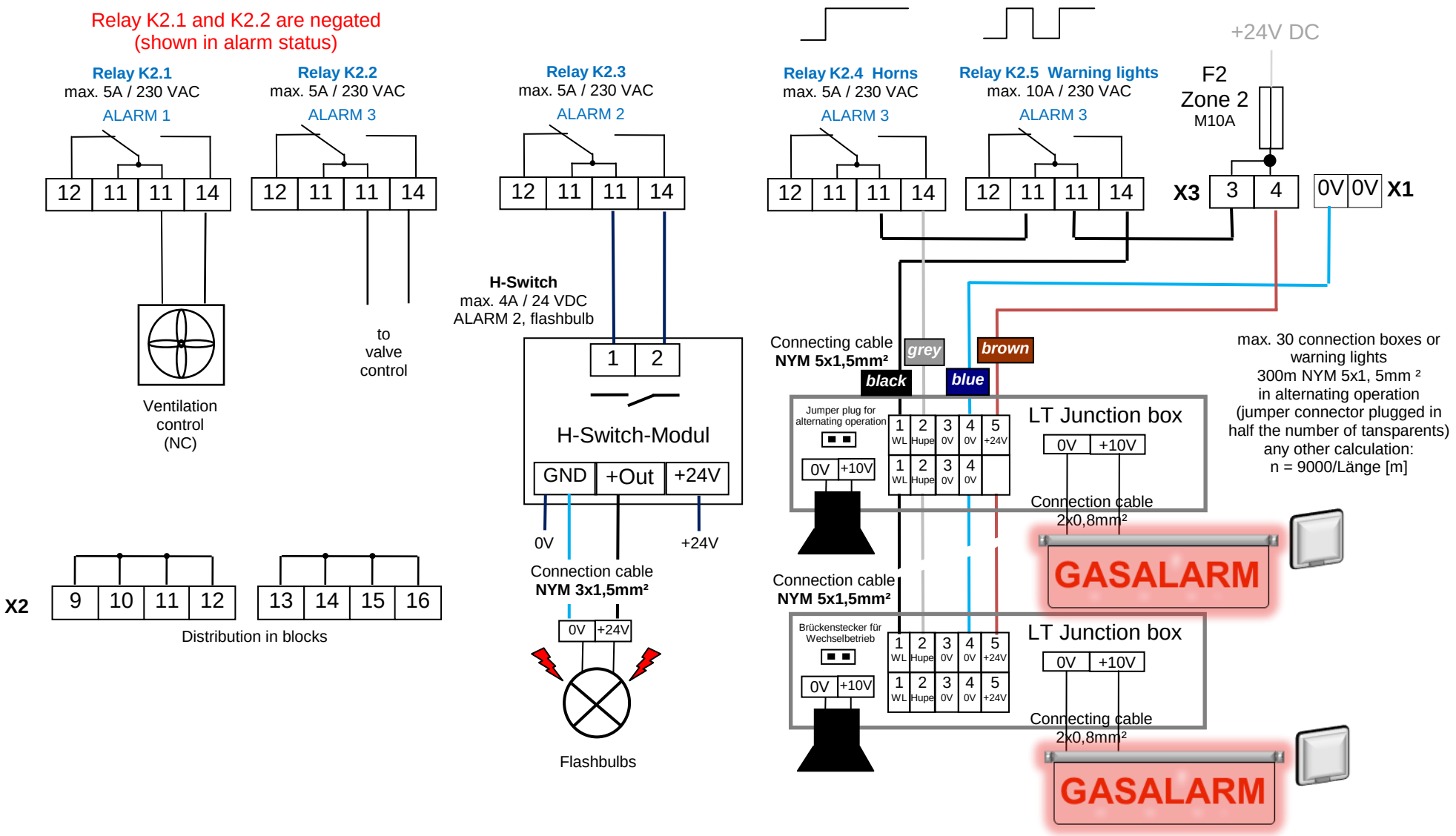


CBCS	RESERVE	CBCS	CBCS

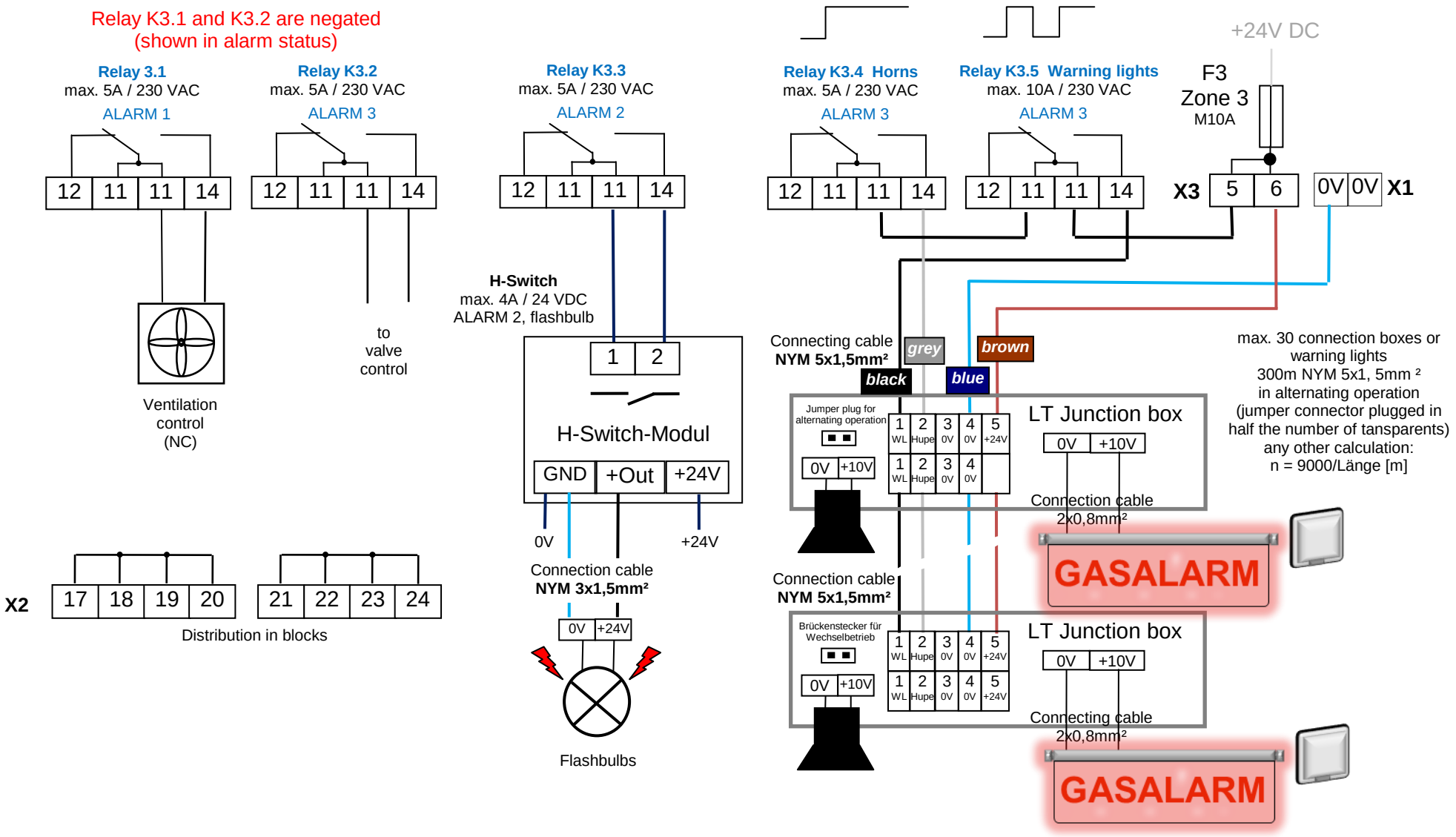
ALARM ZONE RELAY MODULE DIAGRAM X7.1 (Zone 1)



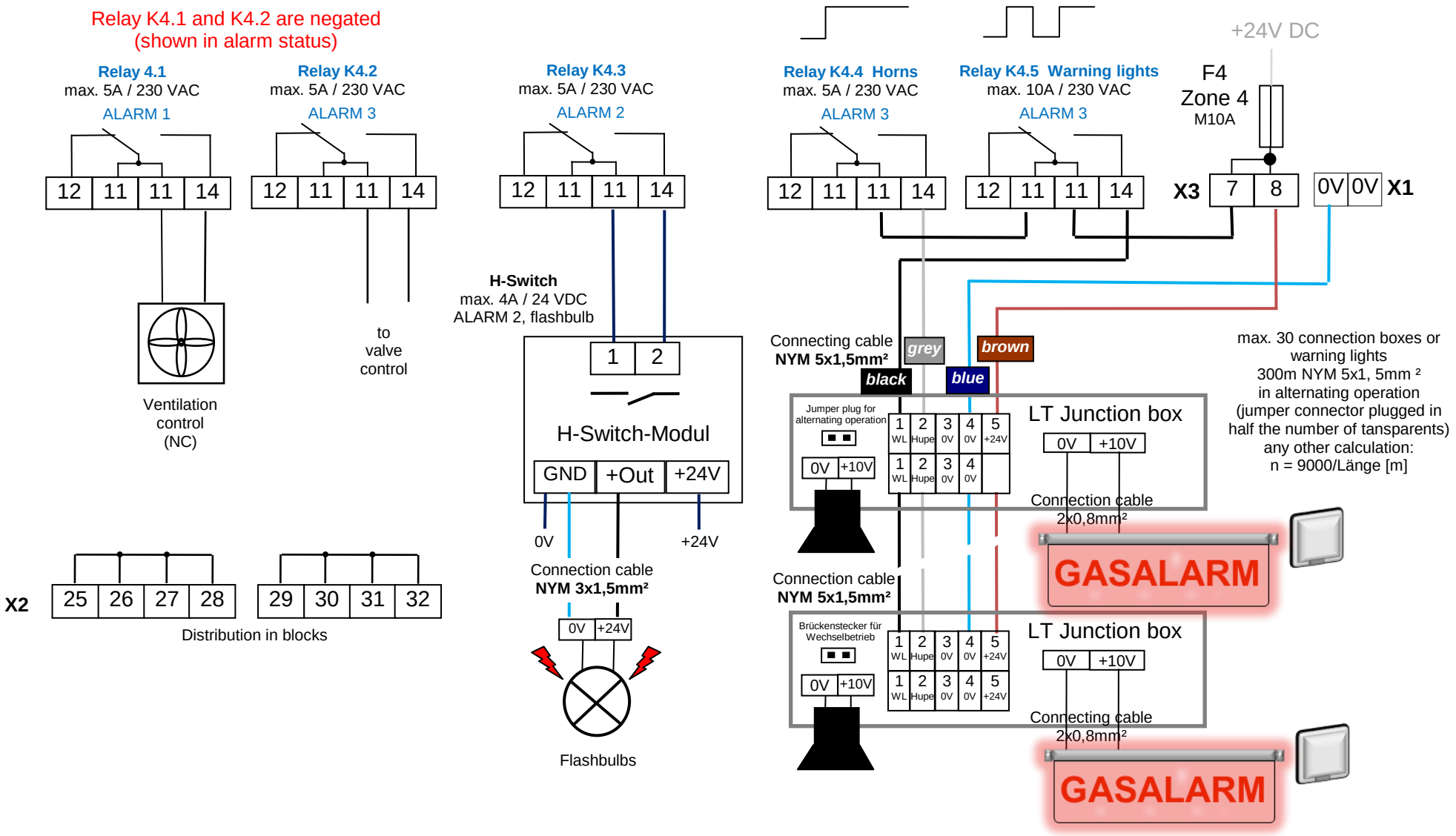
ALARM ZONE RELAY MODULE DIAGRAM X7.2 (Zone 2)



ALARM ZONE RELAY MODULE DIAGRAM X7.3 (Zone 3)



ALARM ZONE RELAY MODULE DIAGRAM X7.4 (Zone 4)



Standard Relay Occupancy

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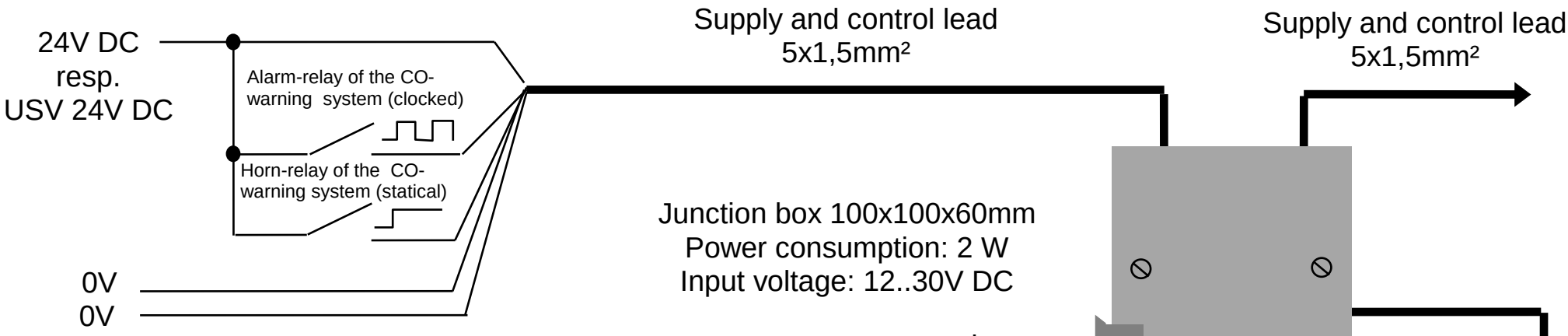
Standard
Relay Occupancy
GCZ 4500 B

Object:
Place:
Date:
Name:

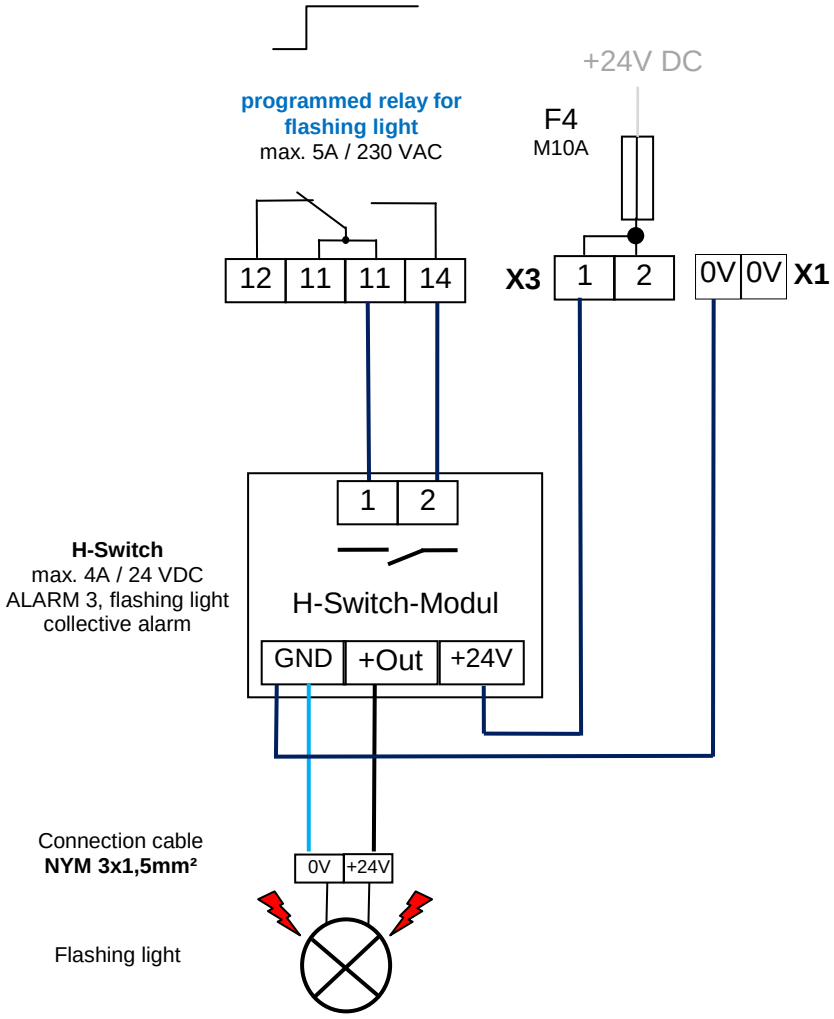
Wiring diagram LED-illuminated warning transparent LT - GA



The power consumption is halved, when in every second junction box the bridge for alternating operation is plugged, because then only every second transparent lights up at the same time

modern LED-illuminated warning transparent pictogram „GASALARM“
LxWxH:
300 x 185 x 20 mm

Connection diagram: Flashing lights



Connection diagram: Uninteruptable Emergency Power Supply USV-B1

Ready = Battery charged >85% + mains power connected + no error

UPS: USV-B1 25-22,4V
5A/3,75 Ah // 5A/9 Ah // 10A/13 Ah

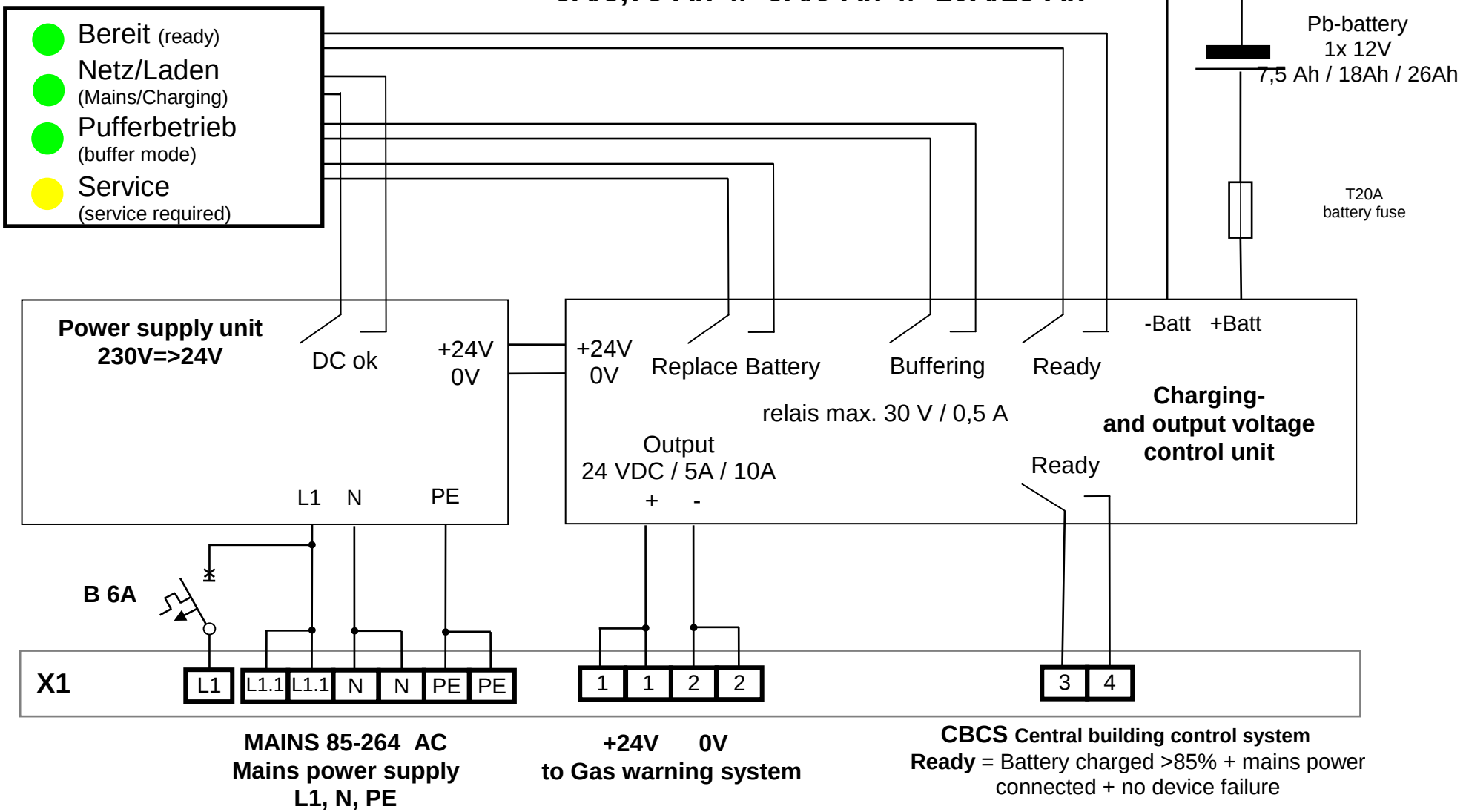
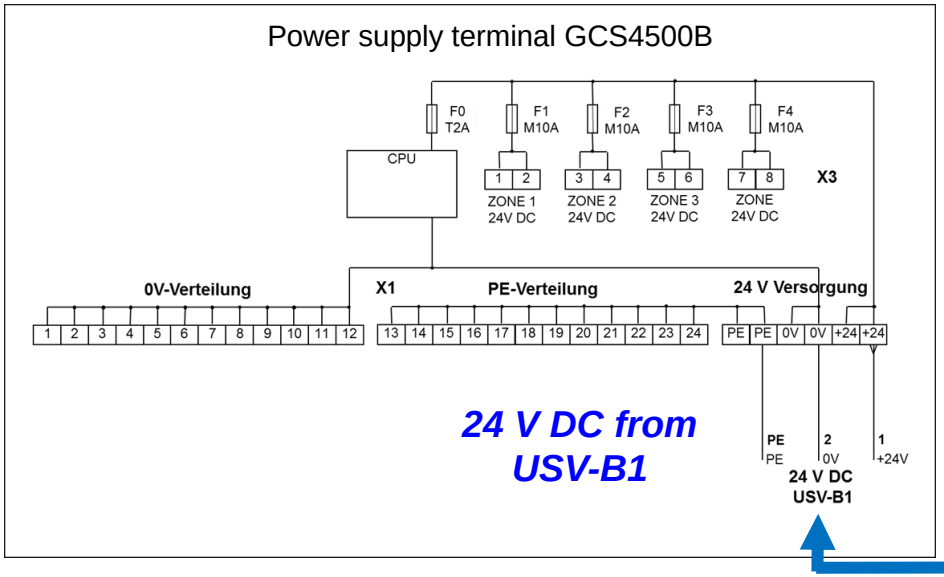
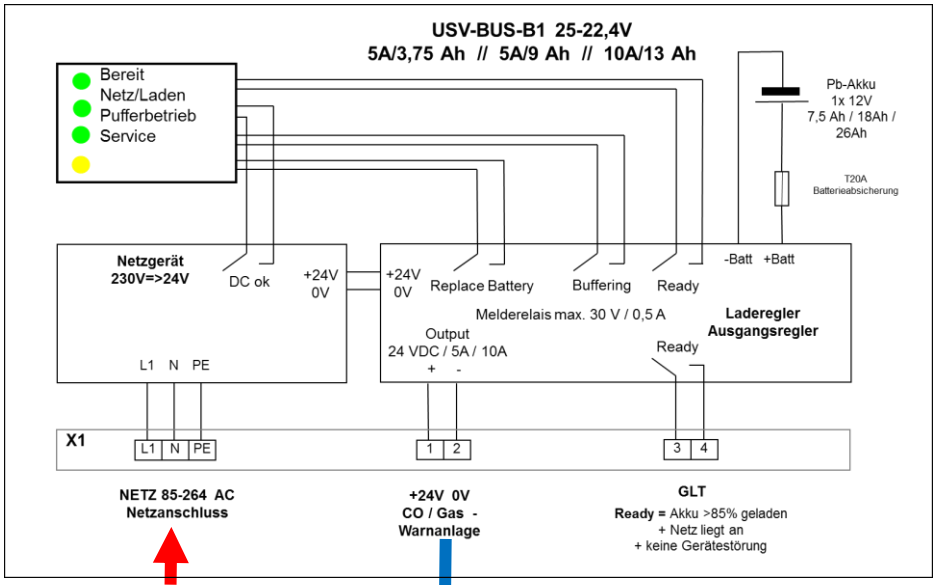


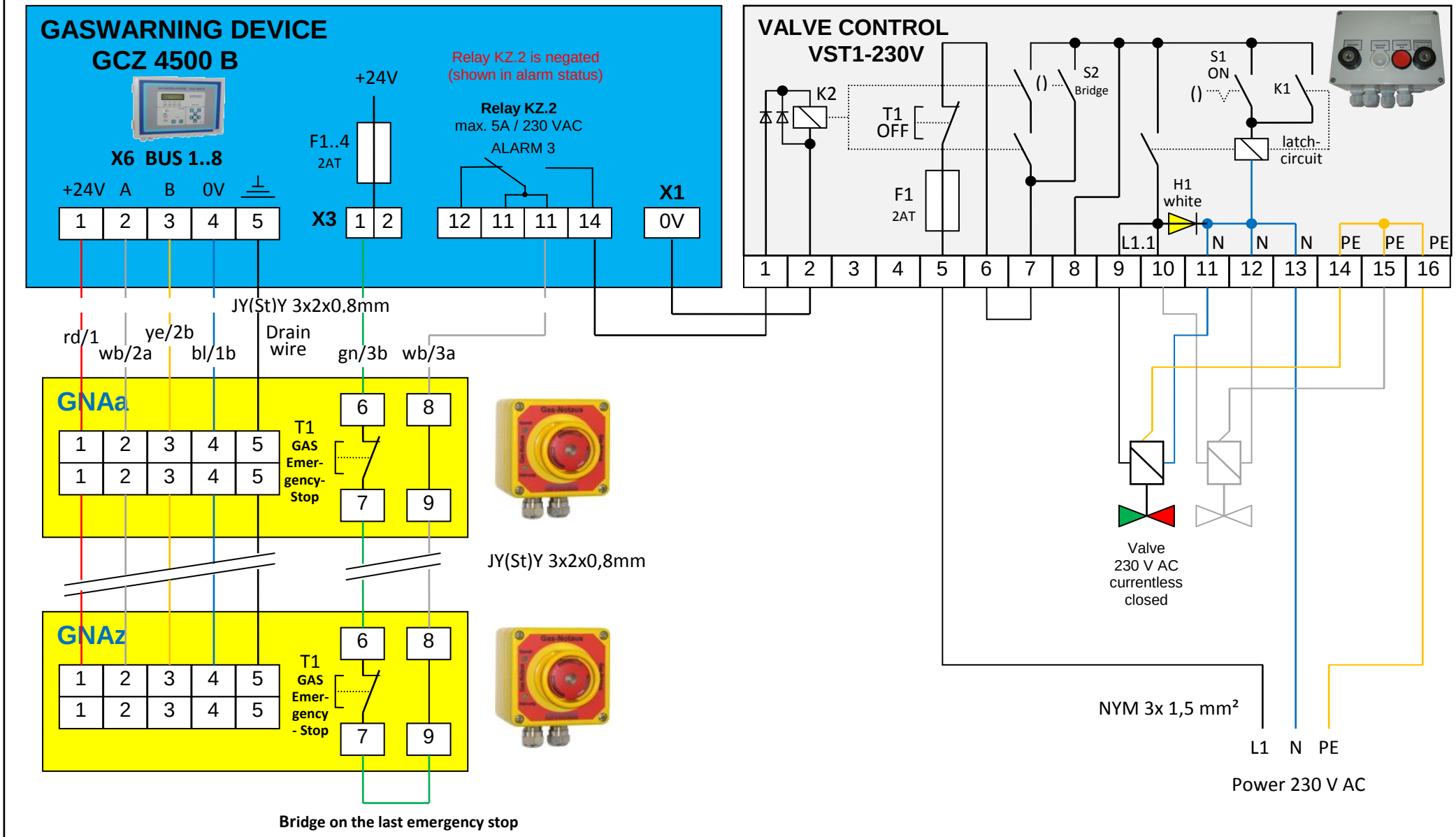
Figure with connection diagram USV to the gas warning system



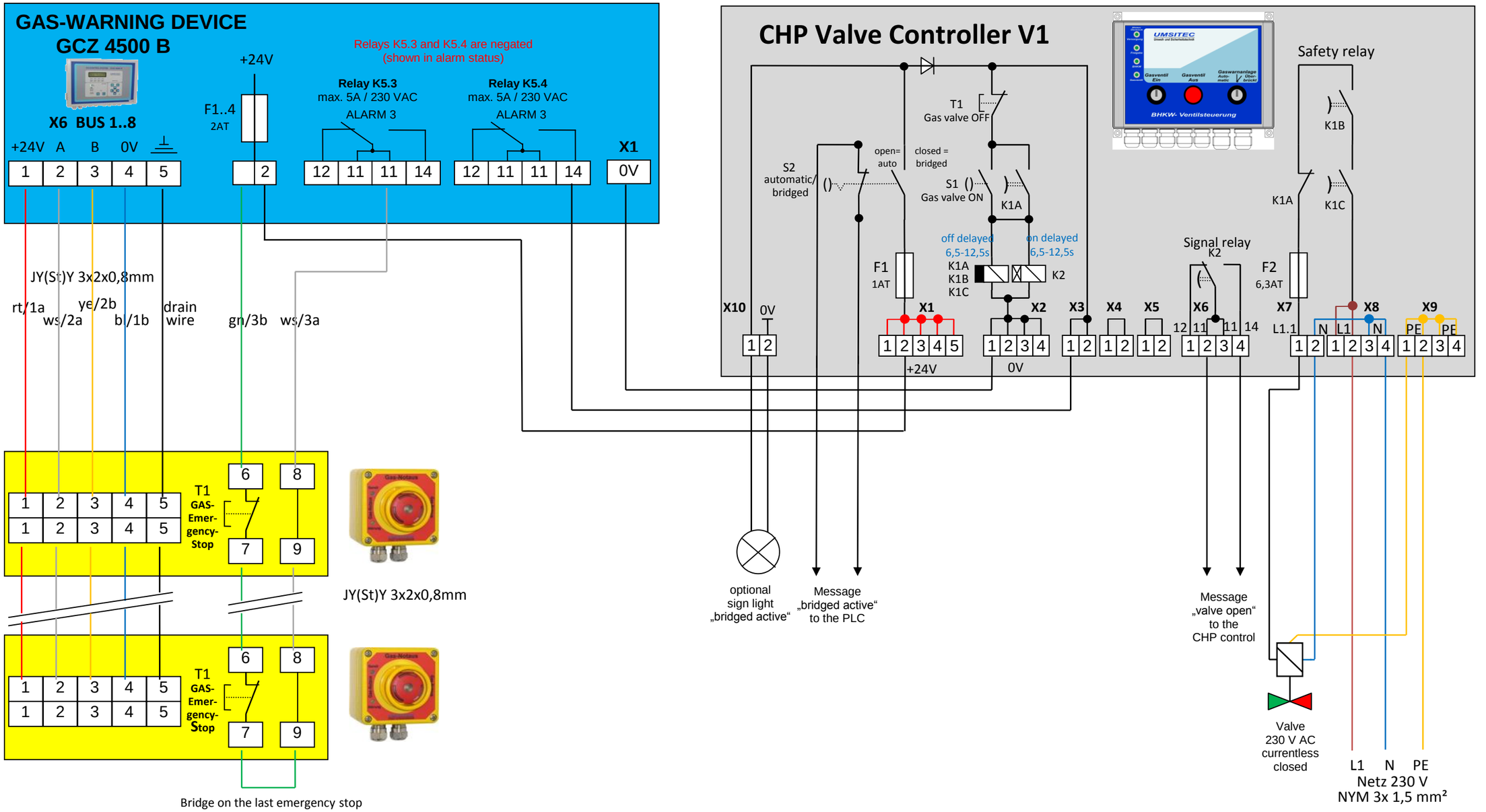


Mains supply 230V AC

Wiring diagram GCZ 4500 B – Valve control / Gas emergency stop



Wiring Diagram GCZ 4500 B – CHP Valve Controller / Gas Emergency Stop Button



System allocation

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Object:	Place:	
Device:	No.:	Location:
Technician:	Date IB / Modification:	

Line discription	Terminal block	Voltage	Room / Souce / Target /control panel …
USV	**Power**	**24 V DC**	**USV-B1**

BUS allocation

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Object:	Place:	
Device:	No.:	Location:
Technician:	Date IB / Modification:	

BUS cable allocation (as in actual order)						
BUS	**Pcs**	**B-No.**	**Type**	**Gas type**	**Sensor/ Unit**	**Room / (Place)**

Notes on the periphery

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Object:	Place:	
Device:	No.:	Location:
Technician:	Date IB / Modification:	

Notes / Wiring diagram / Terminal functions of connected devices

Relay allocation Modules 1..5

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Object:	Place:	
Device:	No.:	Location:
Technician:	Date IB / Modification:	

Relay	Alarm F/VA/HA	Ne-gation	Potential/ contacts	Function	Num-ber	No. / Room(s)Allocation / Place / Message
GSM	**F**	**yes**	**11/14**	**GLT**		**"GWA failure"**
K5.1						
K5.2	**VA**		**11/12**	**GLT**		**" GWA pre-alarm"**
K5.3	**HA**		**11/12**	**GLT**		**"GWA main alarm"**
K1.1						
K1.2						
K1.3						
K1.4						
K1.5						
K2.1						
K2.2						
K2.3						
K2.4						
K2.5						
K3.1						
K3.2						
K3.3						
K3.4						
K3.5						
K4.1						
K4.2						
K4.3						
K4.4						
K4.5						

***further Infos**

Relay allocation Modules 6..9

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Object:	Place:	
Device:	No.:	Location:
Technician:	Date IB / Modification:	

Relay	Alarm F/VA/HA	Ne-gation	Potential/ contacts	Function	Num-ber	No. / Room(s)Allocation / Place / Message
K6.1						
K6.2						
K6.3						
K6.4						
K6.5						
K6.3						
K6.4						
K6.5						
K7.1						
K7.2						
K7.3						
K7.4						
K7.5						
K7.3						
K7.4						
K7.5						
K8.1						
K8.2						
K8.3						
K8.4						
K8.5						
K8.3						
K8.4						
K8.5						
K9.1						
K9.2						
K9.3						
K9.4						
K9.5						
K9.6						
K9.7						
K9.8						

Relay allocation Modules 10..13

UMSITEC
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Object:	Place:	
Device:	No.:	Location:
Technician:	Date IB / Modifiaction:	

Relay	Alarm F/VA/HA	Ne-gation	Potential/ contacts	Function	Num-ber	No. / Room(s)Allocation / Place / Message
K10.1						
K10.2						
K10.3						
K10.4						
K10.5						
K10.3						
K10.4						
K10.5						
K11.1						
K11.2						
K11.3						
K11.4						
K11.5						
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K12.5						
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K13.5						
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K13.7						
K13.8						