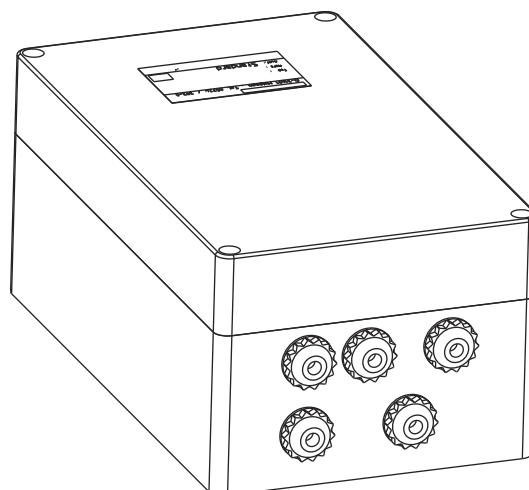


Installation and operating instructions

Sync and sequence control SF 225

Member of the expert
group for smoke and
heat exhaust ventilation
systems controlled by
motor drives



Safety and installation information

Any work on live components may only be performed by a trained electrician.

Safety information to be observed:

Observing DIN, VDE and government safety organisation regulations as well as the provisions of your local power company is mandatory.

Disconnect the mains supply before performing any work.

The installation must be protected against accidental actuation. No wires conducting 24 V DC must be laid together with electric power lines (follow VDE regulations).

All wire lengths and cross sections must correspond with the technical specifications.

Check all functions after installing the sync control system successfully.

Technical specifications

Input voltage	24 V DC (max. 32 V)
Current consumption without drives	< 60 mA
Output current (per channel)	2.5 A
Duty cycle	50 %
Ambient temperature	+10 °C to +36 °C
Lead wires (number of wires)	Sync drives, 4 wires to the drive
Connection terminals	pluggable
Housing dimensions H/W/D	200 x 120 x 86 mm
Protection class	IP 65

Current at output:

Drives	max. 2.5A
Pulse generator on spindle	9 pulses/rev.
Locking	max. 2.5A
When switched off	< 50 mA

Functional description

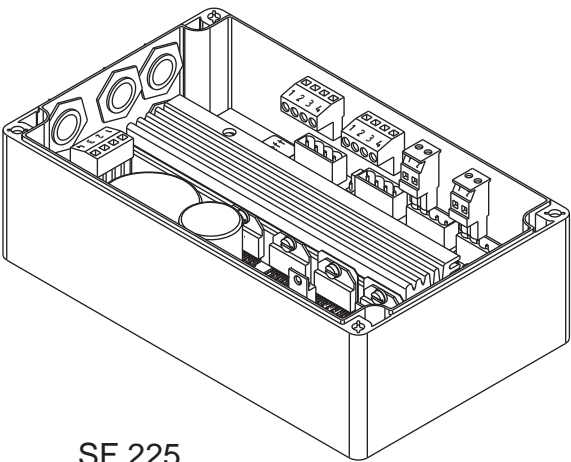
The SF 225 sync sequence control allows you to run two sync drives in synchronous operation and one or two additional lockings with integrated overload cutoff in sequence.

When switched to OPEN direction, the drives will open the window and send a “Window open” message to the central control unit.

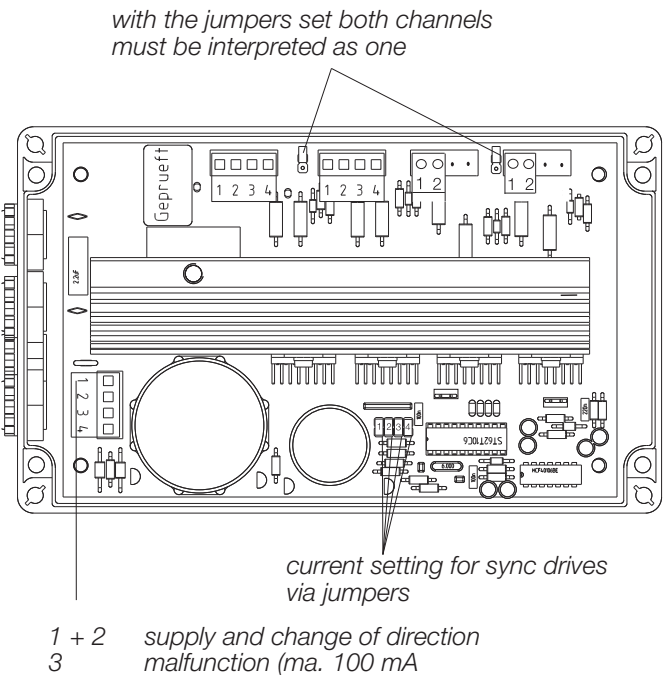
When the locking has reached its end position and turned itself off, the sync drives will be activated.

When set to CLOSE direction, the sync drives will close first. After the sync drives have been switched off, the locking is closed and the message “Window open” is retracted.

In the event of a wire disruption when the locking is switched on and set to OPEN or if the difference between the drives is more than 20 pulses in synchronous operation, the process is interrupted, and an error message will be sent to the central control unit.

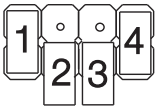


SF 225



Jumper setting

0 - jumper set
1 - jumper not set
example: 0110 = 1,5 A



The maximum current at the output is set as specified in the table

I/A	0,25	0,5	0,75	1,00	1,25	1,50	1,75	2,10	2,35	2,60	2,90
J1	0	0	0	0	0	0	0	1	1	1	1
J2	0	0	0	1	1	1	1	0	0	0	0
J3	0	1	1	0	0	1	1	0	0	1	1
J4	1	0	1	0	1	0	1	0	1	0	1

Wire cross section

Lead wire from the control unit to the control system.

The minimum wire cross section depends on the total current consumption of all drives installed in the feeder wire and the length of the wire.

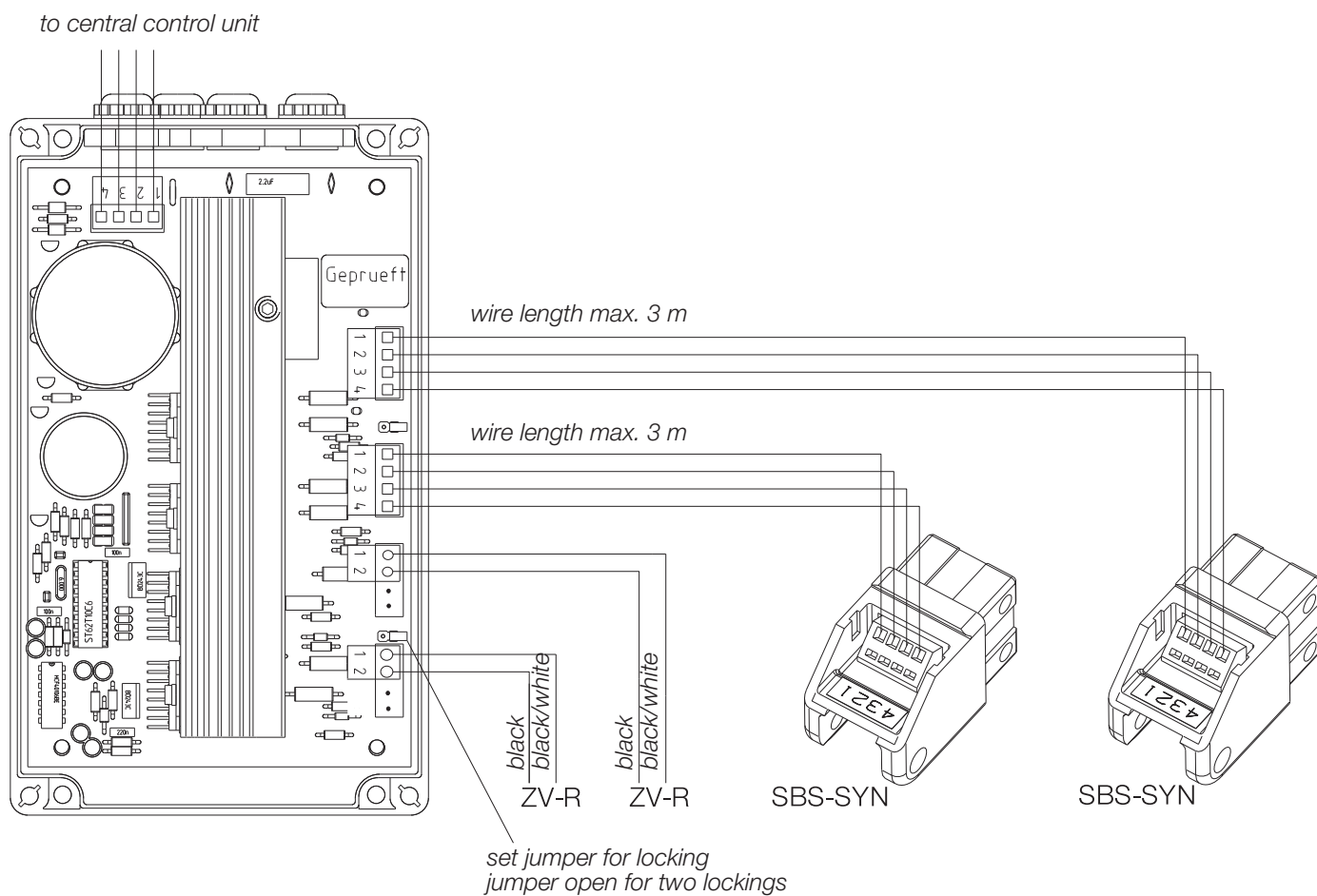
Formula for calculating the wire cross section:

Wire cross section [mm²]=

$$\frac{\text{total current consumption of all drives [A]} \times \text{wire length [m]}}{73}$$

For the application examples on how to calculate the cross section, please refer to the instructions of the included central control unit.

Application example





HAUTAU GmbH · Postfach 1151 · D 31689 Helpsen
Fon + 49 57 24 / 3 93-0 · Fax Sales GLT -124 (domestic) / -138 (export)
Info@HAUTAU.de · www.HAUTAU.de