# 24V SHEV systems for fire prevention





Optimally designed for various applications

#### 24V SHEV systems

#### Advantages of the 24V technology

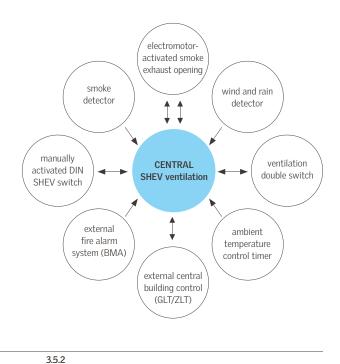
- standby current controlled system
- visual and acoustical alarm and fault indicator
- priority circuit for all alarm-open-commands
- economical control of actual state
- (open/close/ventilation position)
- only one drive system for all opening positions

#### Economic realization of all commands

- smoke detection/temperature detection
- alerting (internal/external)
- manual operation (alarm or ventilation)
- stepless ventilation
- wind and rain detector
- finishing time close-control
- connection to building management system (GLT/ZLT)

#### Possible functions

- electromotor-activated smoke exhaust opening
- smoke detector
- manually activated DIN SHEV switch
- external fire alarm system (BMA)
- external building managment system (GLT/ZLT)
- ambient temperature control timer
- ventilation double switch
- wind and rain detector





**1.1.1** TOP-90 **1.1.2** TOP-90 PLUS **1.1.3** TOP-90 sound reduction **3.4.2** SKYSIGHT

Dome rooflight

with 24V telescope spindle drive

TOP-90 comfort-S

#### Smoke and heat exhaust systems are safety systems!

For fire prevention the question of functional reliability, from the planning stage to assembly and maintenance of the system, is of elementary importance. A specialist company certified by VdS can offer architects and building owners necessary assurance in this matter. The SHEV maintenance service guarantees optimum functional reliability nationwide.

Please ask for the maintenance contract!

## The system smoke exhaust, ventilation and daylight in combination



SKYSIGHT (with border frame) in ventilation position

	Ар	plication pos	sibilities of the 24V SHEV motor opener	Type of drive		
Wall/fFacade Roof	A		glass roof ventilation flap roof-top window	Z, S, R, K		
			dome rooflight	Z, S, R		
			continuous rooflight flap	Z, S, R		
	5		flat glass rooflight	Z, S, R, K		
			SMOKEJET <sup>®</sup> surface ventilator	Z, S, R		
	Ø	F	tilt/rotor window opening to the inside	К		
	P		pivoting window	К		
	R		tilt window opening to the outside at the top or bottom	К		

Z: rack drive

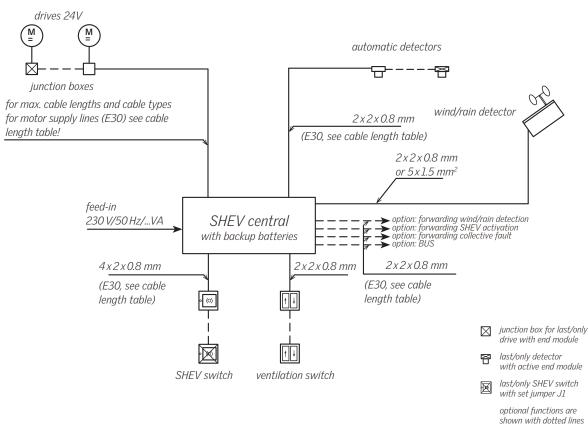
S: thrust spindle drive

R: telescope spindle drive

K: chain thrust drive

### The system: smoke exhaust, ventilation and daylight in combination

	24V motor drives	24V SHEV centrals/switches/detectors/signaller		
motor opener with thrust spindle type M2	<ul> <li>Thrust spindle drive</li> <li>standard drive for dome rooflights and continuous rooflight flaps</li> <li>500N lifting force</li> <li>integrated load shedding</li> <li>thermal protection</li> <li>potential-free contact for the open-indication</li> </ul>	Rauchabzug SHEV central	<ul> <li>from the compact version for 2 drives up to large slide-in central unit for max. 48 drives and more</li> <li>72-hour backup power due to built in accumulators</li> <li>motor, switch, BUS and smoke detector lines are standby current controlled</li> </ul>	
telescope spindle drive type M8	<ul> <li>Telescope spindle drive</li> <li>for use in situations with high aesthetic requirements</li> <li>with integrated electronical load shedding</li> <li>600 N or 900 N lifting force</li> </ul>	RAUCHABZUG Grade Control of the second secon	<ul> <li>lockable with glass panel for breaking in case of fire, available in orange, grey, yellow, blue and red</li> <li>visual display for alarm and control</li> <li>acoustic alarm and fault indicator</li> </ul>	
telescope spindle drive type M8-S	<ul> <li>Telescope spindle drive</li> <li>for use in situations with high aesthetic requirements</li> <li>with integrated electronic synchronous control</li> <li>for the synchronous run of 2 drives</li> <li>900N lifting force</li> </ul>	ventilation rotary switch	<ul> <li>ventilation rotary switch with touch and latching function (adjustable)</li> <li>available in upon or under plaster version</li> </ul>	
for smaller dimensions motor opener with rigid chain type M3	chain thrust drives	wind/rain detector	<ul> <li>in case of wind and rain the system is closed automatically</li> <li>as soon as ventilation is possible again the system can be opened manually</li> <li>wind on-delay and wind/rain delayed release adjustable</li> <li>wind sensitivity adjustable</li> <li>rain sensor heated</li> </ul>	
for medium dimensions motor opener with rigid chain type KA	<ul> <li>elegant alternative to the spindle drives</li> <li>can also be installed on narrow window cover frames due to low installation height</li> <li>nearly all window types can be opened electrically by the use of suitable consoles</li> <li>stroke length from 100 up to 800 mm (depending on type of drive)</li> <li>lifting force from 250 up to 1000 N (depending on type of drive)</li> <li>with integrated electronic load shedding</li> <li>application as solo, tandem or synchronous</li> </ul>	smoke detector	<ul> <li>building approval</li> <li>VdS-approval no.: G200017</li> <li>smoke detection by scattered light principle</li> <li>visual alarm display</li> </ul>	
for larger dimensions and selected glass products motor opener KM13	<ul> <li>application as solo, tandem or synchronous drive (depending on type of drive)</li> <li>operating parameters programmable (depending on type of drive)</li> </ul>	various signallers for connection to the 24V SHEV	<ul> <li>flashlight for visual signalling after a SHEV release</li> <li>alarm siren: warning with 115 dB (A) also suitable for outdoor installation</li> <li>Piezo-buzzer: warning with 90 dB (A)</li> <li>fire bell: warning with 86 dB (A)</li> </ul>	



Note:

Attention:

Other SHEV central control units upon request

In case of the motor supply line it is not allowed to use the protective conducting wire (green/yellow)! Please consider the VDE guidelines!

## Maximum permitted cable lengths for the SHEV central control units in combination with standard drives taking into consideration the specified cable cross sections

Cross section drive current	3.0 x 1.5mm²	5.0 x 1.5 mm²	3.0 x 2.5 mm <sup>2</sup>	5.0 x 2.5 mm <sup>2</sup>	3.0 x 4.0 mm <sup>2</sup>
1 A	84 m	168 m	140 m	280 m	224 m
2 A	42 m	84 m	70 m	140 m	112 m
3 A	28 m	56 m	47 m	93 m	75 m
4 A	21 m	42 m	35 m	70 m	56 m

Note:

Electrical wires must be laid according to the respective applicable version of the VDE guidelines in general.





•ISO 9001 •ISO 45001 •installer SHEVS •approved products