



SMOKE AND HEAT VENT CONTROL SYSTEM EMB 7200 FOR STAIRCASES



Registration as an installation contractor
for smoke venting systems - E 6002001

Registration of components and systems
Smoke venting system in staircases
type EMB 7200 - S 502003

ferralux® RWA

LIGHT SCATTER SMOKE DETECTOR

VdS Registration No. G 297049



Measuring principle: Light scatter measurement

Colour: White

Dimensions: Diameter 120 mm x 80 mm

Protection class: IP 44

Order No. 513533

BREAK GLASS UNIT (HSE) with LED visual indicators

VdS Registration No. G 501006



Type	Main control centre	secondary control centre
Keys:	HSE 7100 EMERGENCY OPEN and CLOSE	HSE N 7000 EMERGENCY OPEN
Displays:	EMERGENCY OPEN Fault, Operating	EMERGENCY OPEN
Protection class:	IP 30	
Environment class:	1	
Ambient temperature range:	-10 to +55 °C	
Casing dimensions:	130 x 130 x 32 mm (W x H x D)	
Casing colour:	orange (similar to RAL 2011)	
Order No.	528695	525005

ELECTROMECHANICAL TRIGGER DEVICE

VdS Registration No. G 599010
VdS 2580



SP 6 – Linear actuator

SP 6 – spindle stroke linear actuator

Stroke:	Design length	Order No.
500 mm	693 mm +/- 5 mm	511750
750 mm	943 mm +/- 5 mm	511775

Other stroke lengths available on request

Technical data:

Max. stroke force:	600 N
Max. compression strength for blockade:	2550 N
Pull-out force:	3000 N
Stroke speed:	at 24 V, load = 600 N, approx. 14.0 mm/s at 28 V, load = 400 N, approx. 18.0 mm/s
Opening time:	with a 500 mm stroke approx. 35 sec. with a 750 mm stroke approx. 53 sec.
Rated voltage:	24 V DC (max. 2 Vss)
Operating voltage range:	19 – 32 V
Current consumption:	approx. 1.9 A, approx. 2.5 A for blockade
Duty cycle:	ED 60 %
Ambient temperature range:	-5° C to +75° C
Can be connected in parallel:	Yes
Protection class:	IP 54
Connection cable:	Silicon FRNC-LSIHSI FE90 approx. 1 m long
Casing colour:	Natural colours, anodised (E6/EV1)

Bracketry for many window types can be supplied with this drive unit type.

SMOKE AND HEAT VENT CONTROL UNIT



Registration No. G 502001
VdS 2581, VdS 2593

The EMB 7200 smoke and heat vent control unit is specially developed for monitoring staircases.

Technical features:

- Integrated wind/rain sensor
- Integrated time-dependent opening stroke in ventilation mode
- Integrated "automatic CLOSE"

Version 5 A, 120 VA, 24 V DC

Order No. 682050

Electrical data and connection values

Operating voltage, primary:	230 V AC +10% / -15%
Frequency:	50 Hz
Connecting rating:	max. 120 VA
Rated voltage of the drive units:	24 V DC (23.9.....36.4 V DC)
Maximum current load on VdS (Property Insurers Association)-approved system with SP 6 drive unit:	
Max. temporary load current (duration: 300 ms for blockade):	5.0 A
Max. permanent current (load method: 6 min. function, 4 min. pause):	3.8 A
for smoke and heat venting systems with other drive types:	5.0 A
Duty cycle:	60% ED
Output voltage from sensor lines:	approx. 20 V (19.9.....20.8 V)
Ventilation button display:	max. 28 V DC, 0.2 A
HSE display:	max. 28 V DC, 0.15 A
Emergency power supply*:	>72 hours 2 lead gel batteries
Charge voltage:	Temperature-compensated and voltage-stabilised
Rated battery voltage and capacity:	2 x 12 V DC, 2 Ah

Mechanical data

Casing dimensions in aP casing (W x H x D):	350 x 250 x 120 mm
Protection class:	IP 20
Colour:	RAL 1013

Ambient temperature range

pursuant to VdS (Property Insurers Association) 2581 environment class III:	-5 °C to +40 °C
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* The internal emergency power supply ensures that after a power failure lasting 72 hours the central control point opens the connected drive units at least twice and closes them once.



Type EMB 7200

The following expansions may be used:

The REL 65 relay board is required to control external alarm sensors or if the signal is transferred by floating contacts.

Switching capacity of the floating contacts in REL 65: max. 42 V DC, 0.5 A

Slot S for floating contact: Fault

Slot N for floating contact: EMERGENCY OPEN

Order No. 650200

The switch-on module for installation in a BMA central control point allows an EMERGENCY OPEN signal to be transferred to the central smoke and heat venting control point. The cable from the central control point to the switch-on module is monitored by closed-circuit current.

Order No. 670053

Service board

This provides a reminder after 15 months that a service is required by means of an optical display.

Order No. 681010

Wind / Rain sensor set

This consists of a wind sensor, a compact rain sensor and a console. Suitable for mast or wall mounting.

Order No. 482100

Compact rain sensor

Integrated switch unit with a console for wall mounting.

Order No. 480210

Why use a smoke vent?

Where there is fire, there will be smoke. This smoke and the other combustion products endanger human life and damage property.

Escape routes become impassable, thus making it impossible for the fire service to fight the fire properly.

As the fire progresses the smoke gases become hotter and may cause a flashover.

This means that a reliable smoke and heat venting system is essential in every building.

A functioning smoke and heat venting system

- protects human life,
- keeps escape routes clear,
- facilitates fire fighting work,
- prevents additional fires.

