Fuma
Automatic opening vent

Slimchain actuator instructions

Product features

The actuator is pre-fitted to the Fuma AOV and can be used both for heat and smoke extraction (24V) and for natural heat and smoke extraction systems in accordance with DIN 12101-2 as well as for natural ventilation (230V using a mains adaptor).

Intelligent electronics: continuously adjustable actuator stroke and individual speeds for the ventilation and RWA modes.

Integrated synchronised module: true synchronisation of up to 2 actuators with no external control device. DIP switch to adjust control mode (Solo and Synchronic, Master, Slave).
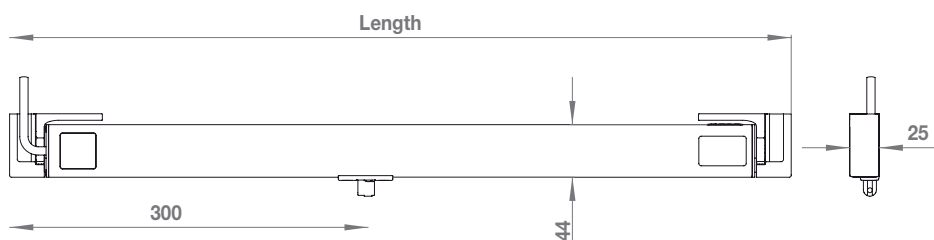
Specifications

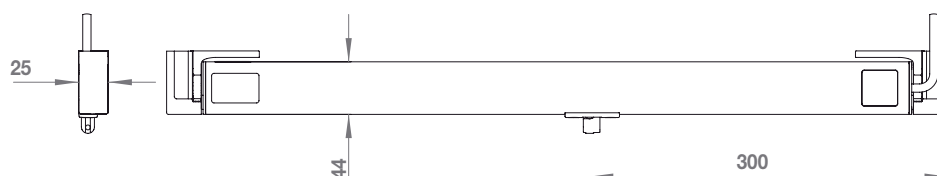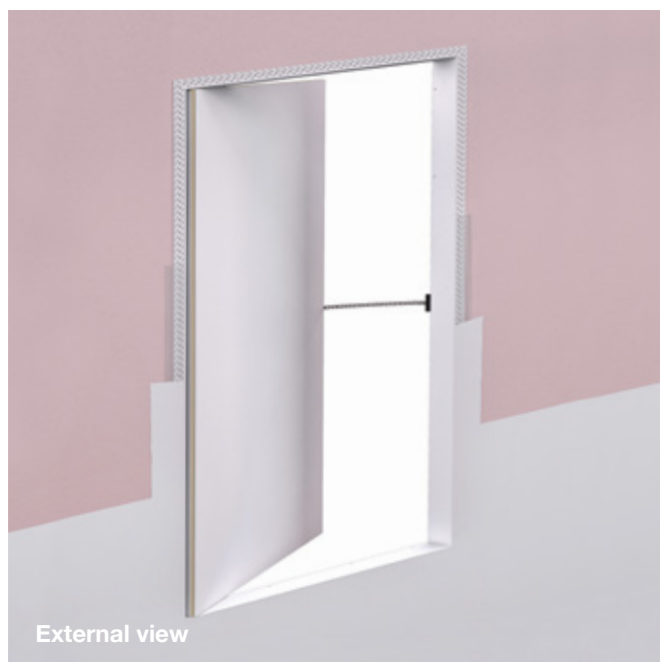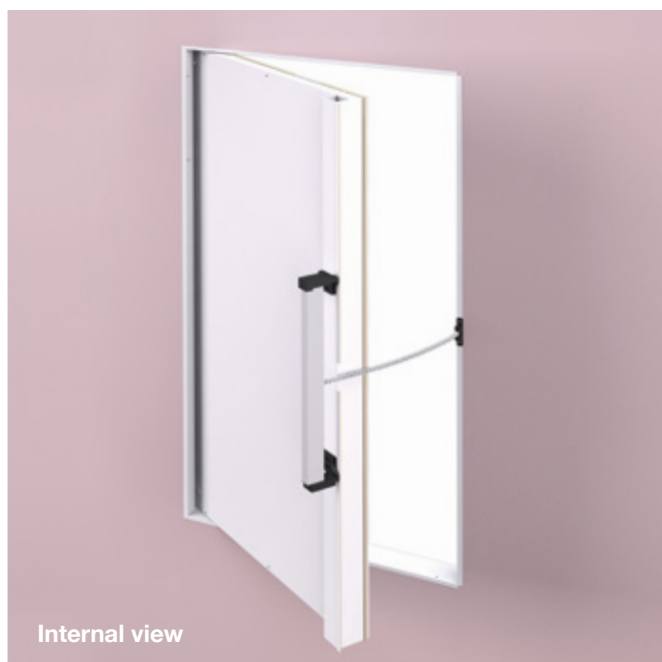|	
Chain actuators	Slimchain
Type Fuma AOV	Bottom hung, Top hung, Side hung
Opening width / stroke	300 / 500 / 800
Tension [N]	300
Pressure [N]	200

Technical drawings

GEZE Slimchain
Left

GEZE Slimchain
Right

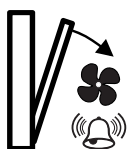## Typical installation

Internal view

External view

AOV Electrical connection
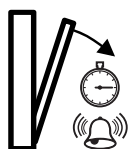

1. FA
2. FA

A B S L
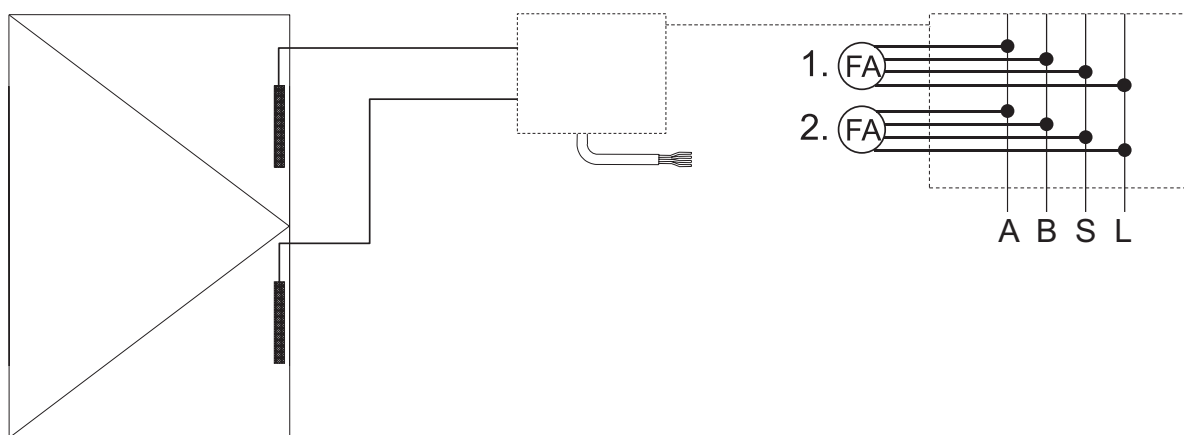
Operating modes

Ventilation/Alarm - Control via alarm relay
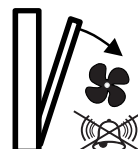
Ventilation: Actuator opens with ventilation speed till the ventilation stroke. Different strokes are possible.

Alarm: Actuator opens with alarm speed till the alarm stroke.

Permanent alarm

Actuator always opens with alarm speed till the alarm stroke.

Ventilation without alarm

Actuator always opens with ventilation speed till the adjusted ventilation stroke.
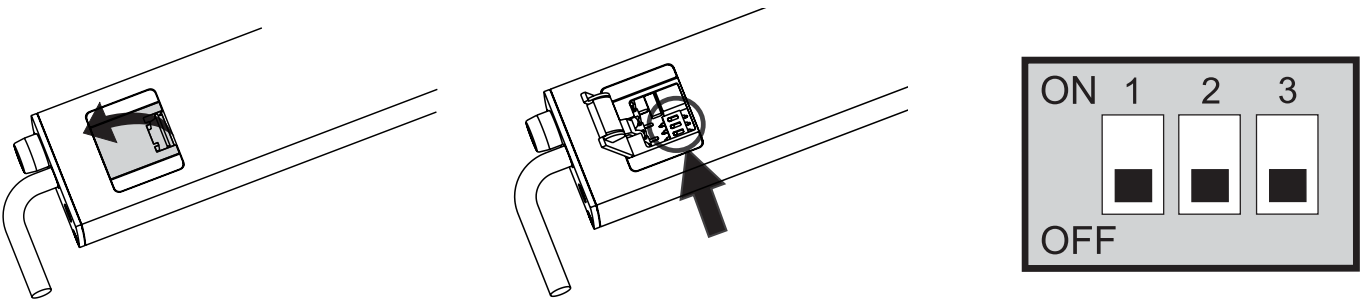
Configuring for syncronised operation

For each AOV a maximum of 2 actuators will be fitted. All actuators are configured as 'solo' by default. Therefore, in syncro-operation each actuator has to be re-configured according to its use before installation.

FA - Actuator (Slimchain)
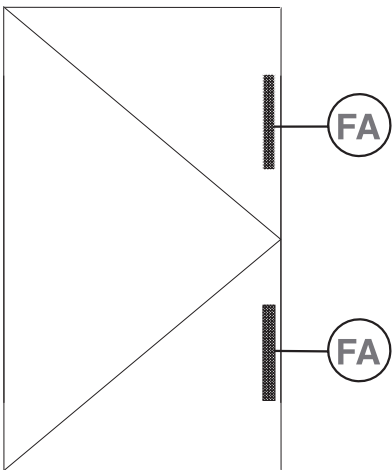
Control panel location

Set number of slaves to master and address slaves.

DIP (FA)	1	2	3	(4)	Master Actuator
Slimchain	OFF	OFF	OFF		SOLO
	OFF	ON	ON		MASTER SLAVE
	OFF	ON	OFF		MASTER SLAVE SLAVE
1	**2**	**3**	**(4)**		**Slave Actuator**
	ON	ON	ON		MASTER SLAVE 1 SLAVE 2
	ON	ON	OFF		MASTER SLAVE 1 SLAVE 2

Note

Each slave address of the actuator can be assigned only once per AOV.

DIP switch 4 (only in E 250 NT) is used to set the direction of travel, i.e.

DIP4= OFF → AOV OPEN = Extend spindle (normal state)
DIP4= ON → AOV OPEN = Retract spindle or AOV CLOSED = extended spindle (RWA105 fitting system).

In the case of actuators that run in synchro mode, DIP 4 must be set the same at both actuators.

Commissioning

The actuator begins the initial operation after applying the voltage in the 'OFF' direction (24V A = +24V, 24V B = GND). Thereby it reads the OFF end position (closed position) when running in via electronic load switch-off with closed AOV. Make sure there is no obstacle when making the initial operation, or else the closed position is read wrong.

To re-start a start-up actuator, proceed as follows:

› Open AOV by at least 100 mm.
› Actuate switch for closing the AOV (AOV begins to close).
› Connect cables „B"" and „L" for at least 5 seconds.
› Thereafter, separate „B" and „L" link.

Now a new start-up actuator is performed. The actuator can be parametrised with the aid of the start-up box (Mat. No.139699) and the programmer ST220 (Mat. No.: 087261). For more information on parametrisation, see the instructions of the start-up box.

Electrical data

Voltage [V DC]	24 +/-25% SELV	
Max. ripple U_ss [%]	20	
Duty cycle [%]	30	30
Short-term operation [min]	2	2
Input [W]	Max. 24	Max. 36
Current consumption in ventilation mode [A] Current consumption in alarm mode [A]	1,0: 24V DC 1,0: 18V DC	1,5: 24V DC 1,5: 18V DC
Ambient temperature [°C]	-5 / +70	
Protection type [IP]/class	IP 40 / III	IP 42 / III
Application area	Dry rooms	
Connection cable	4 x 0,75 mm²	
Cable length	2m, silicon-coated	

For further information on the Selo product range, including installation videos, O&M manuals, and more, visit our website: