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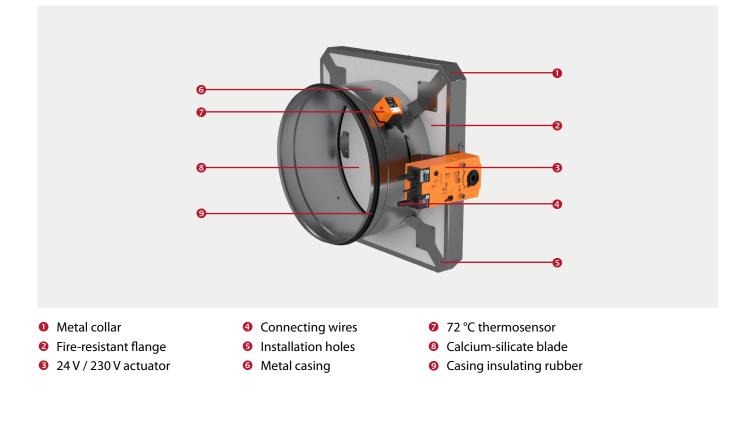
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Design and dimensions

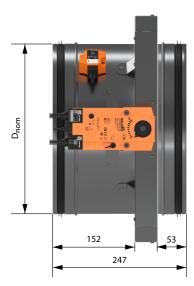
Circular fire damper UVAF-M with a fire resistance of 60 minutes is available in diameters from 100 to 315 mm. The fire damper is appropriate for at-the-surface mounting.

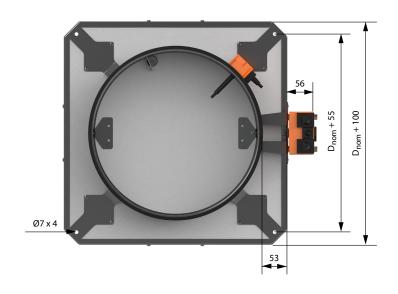
Design advantages

- Fast and easy installation.
- Extra-short 247 mm casing.
- Air-tightness class C3.
- Suitable for installation in flexible or solid walls and solid ceilings.
- Operating temperature -30 ... 55 °C.



Main sizes of the damper



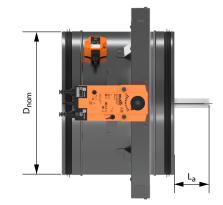


Main characteristics

- UVAF-M dampers available in six sizes Ø 100, Ø 125, Ø 160, Ø 200, Ø 215 and Ø 315 mm.
- CE certified according to EN 15650.
- Tested according to EN 1366-2.
- Classified in acc. with. EN 13501-3.
- Fire resistance El60S.
- C3 leakage class in acc. to EN 1751.
- The metal parts are made of galvanized steel, stainless steel available on request.

Weights, free-cross sectional area and exposition of the blade

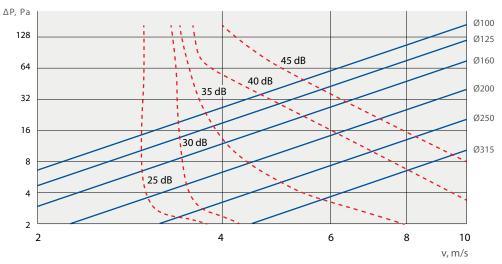
D _{nom} , mm	m, kg	Free area, m ²	L _a , mm
100	3,3	0,004	0
120	3,7	0,0075	0
160	4,3	0,015	0
200	5,0	0,025	13
250	6,0	0,04	38
315	7,4	0,068	71



Technical data

Pressure drop and sound power level

On the fully open UVAF-M fire damper pressure drop and generated sound power lever can be determined using graph below for a specific air flow value.



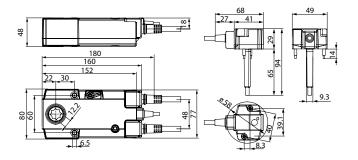
Pressure drop and sound power level

Actuating system

Fire dampers UVAF-M are equipped with electrical BFL 24 V or 230 V actuator with spring return mechanism and integrated end position switch. In case of power failure, fire dampers will close automatically.

BFL24 -T/ BFL230-T





When an electric current is supplied to the actuator, the fire damper is in an open position. When the electricity supply to the actuator is interrupted, the return spring triggers and closes the damper. The actuator can also be controlled manually and fixed in any position. BFL24-T / BFL230-T actuators control fire dampers after receiving signals from a centralized control system, or in response to a temperature sensor.

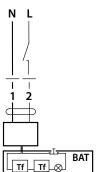
Once the air temperature reaches +72 °C, temperature sensors will respond and permanently terminate the power supply to the actuator. After each actuation, temperature sensors must be replaced.

ST model is equipped with connection plugs for simple integration in control and monitoring systems or bus networks via communication and power supply units.

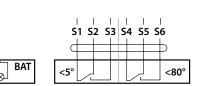
Technical specification	BFL24-T	BFL230-T
Electrical current	AC/DC 24 V 50/60 Hz	AC 230 V 50/60 Hz
Weight	1200 g	1200 g
Torque: Motor Return spring	min. 4 Nm min. 3 Nm	min. 4 Nm min. 3 Nm
Rotation angle	max. 95°	max. 95°
Normal operating temperature	-3055 ℃	-3055 ℃
Protection class IEC/EN	III Safety extra-low voltage	III Safety extra-low voltage
Protection class auxiliary switch IEC/EN	III Safety extra-low voltage	III Safety extra-low voltage

Wiring diagrams

AC 230 V, open/close

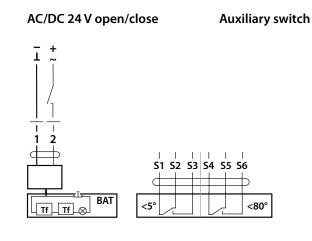


Auxiliary switch



Cable colors:

1 = blue	S4 = orange
2 = brown	S5 = pink
S1 = violet	S6 = grey
S2 = red	Tf: Thermal fuse
S3 = white	



Cable colors:

1 = black	S4 = orange
2 = red	S5 = pink
S1 = violet	S6 = grey
S2 = red	Tf: Thermal fuse
S3 = white	

Technical data

Control system

Fire dampers should be checked regularly. Doing this manual way is time consuming and requires a lot of human resources. The process can be fully automated with the KFSC-M240 dedicated controller and KFSC-UFC modules.

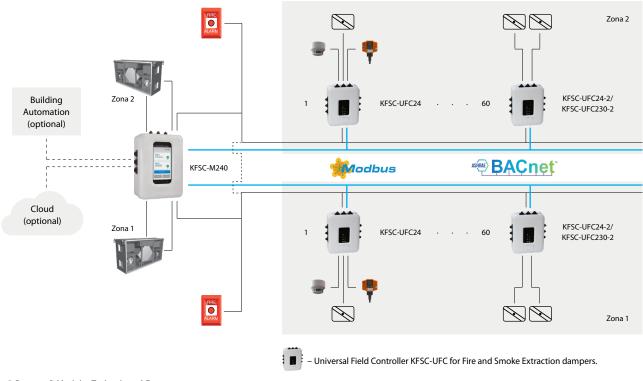
Using control system, the automation will regularly check the status of fire and smoke dampers and inform the user in case of a malfunction.

Benefits:

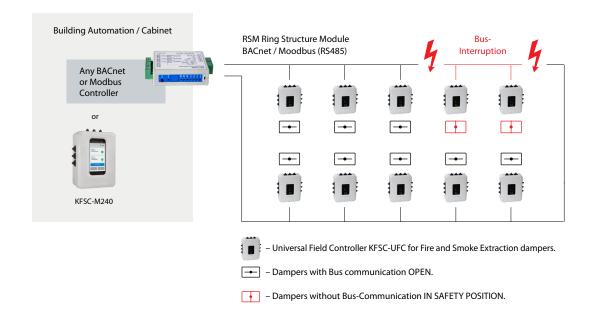
• Commissioning for the fire damper system including integration of the Fire Alarm Panel and the Ventilators also completed in a very short time frame.

- Datapoint test was concluded in a very short time.
- Remarkable cost savings on the controls system (>50 %) by using the bus system.

Fire/Smoke Extraction Damper Controls with Ring-Structure



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Most simple Ring Solution for standard RS-495 Bus Systems with 1 Cable

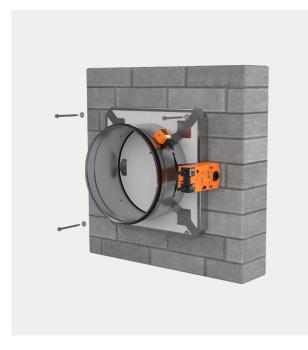
Functionality

- Standalone solution for two fire- or two smoke extraction zones or one fire and one smoke extraction zone.
- Up to max. 240 dampers can be controlled via the KFSC-UFC (KFSC-UFC24, KFSC-UFC24-2, KFSC-UFC230-2) devices and together with the KFSC-M240.
- Pre-programmed and tested functionality.
- Self-commissioning of the KFSC-M240 and the connected KFSC-UFC's safes time and costs at commissioning.
- Automatic test runs, test reports available. Automatic sending by e-mail possible.
- Remote access via cloud as option available simplification of the physical test at site as one of the advantages.
- Cable length RS-485: up to 1200 m, without repeater.

Installation methods

UVAF-M fire dampers are suitable for vertical installation in flexible and solid walls \geq 100 mm thick with minimal fire resistance of El 90. Achieved fire resistance class for the installation in both wall types is El 60S.

Installation in min. 100 mm solid wall



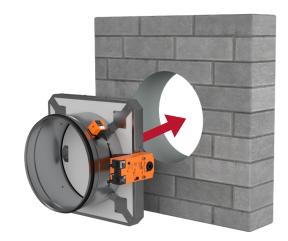
Installation in min. 100 mm flexible wall



Installation in min. 150 mm solid ceiling



UVAF-M fire dampers are suitable for extra-fast mortarless mounting directly to the installation opening, using an appropriate fastening.



For detailed installation information please refer to manufacturer's installation instructions.

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Ordering sample

$$\frac{\text{UVAF}}{\textbf{0}} - \frac{\text{M24T}}{\textbf{0}} - \frac{315}{\textbf{0}} - \frac{\text{AISI304}}{\textbf{0}}$$

0	Product type:	Circular fire	damper UVAF
-			

Activation	type: M24T - 24V AC/VC spring-return actuator with thermoelectric tripping device
	M230T - 230V AC spring-return actuator with thermoelectric tripping device
	M24TST - 24V AC/VC spring-return actuator with thermoelectric tripping device and connection
	plugs for Communication and power supply unit BKN230
Dimension	: d – nominal diameter in mm
Material of	f metal parts: No entry – zinc-coated sheet steel
	AISI304 – stainless steel grade AISI304
	AISI316 – stainless steel grade AISI316



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