Fire /smoke control damper

WKP-O-E

- **VDI 6022** HYGIENIC STANDARD
- MULTIPLE BLADES

Description

Fire damper with multiple blades EI 120 S according to UNI EN 1366-2 classification UNI EN 13501-3 certificate no. 2434-CPR-0010 CE marking - VDI 6022 hygienic certificate

- Construction: Z275 galvanized steel frame with silicate fibre interposed, 30 mm flanges for ducting connection, counter blade movement, made of silicate fibre and fastened by bolts, intumescent gasket both on the blades and damper frame. Cold smoke sealing gasket
- Vertical installation on masonry wall
- Leakage class C of the frame according to EN 1751
- Max dimension 1200x800
- Frame depth 270 mm

Fitted with:

- electric actuators with thermal fuse at 72°C, spring return, double microswitch both 24V and 230V; housed in a special "box" to ensure continuity

- Installation in walls with fire-resistance classes EI 120/90/60
- Masonry walls min. with min. density 450 Kg/m³ th. 120 mm

EI 120 (ve i < -> o) S - (horizontal blades)

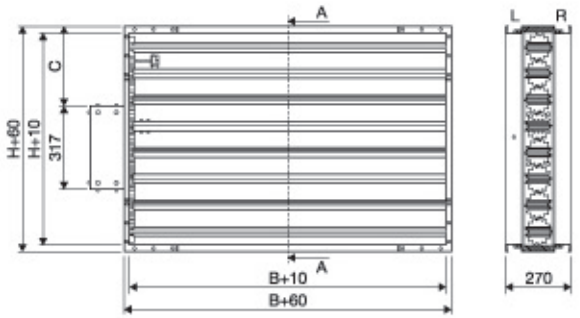
EI 90 (ve i < -> o) S - (vertical blades)

WKP-O-E-K-24T: with actuator with spring return, thermal fuse and double opening and closing micro limit switch, 24V power supply
WKP-O-E-K-230T: with actuator with spring return, thermal fuse and double opening and closing micro limit switch, 230V power supply

Special constructions

KL: left flange
KR: right flange
T: without flanges for air transit applications, frame th. 125 mm
- Additional communication systems (see page 10)

WKP-O-E dimensions



Overall actuator dimensions (317)x125

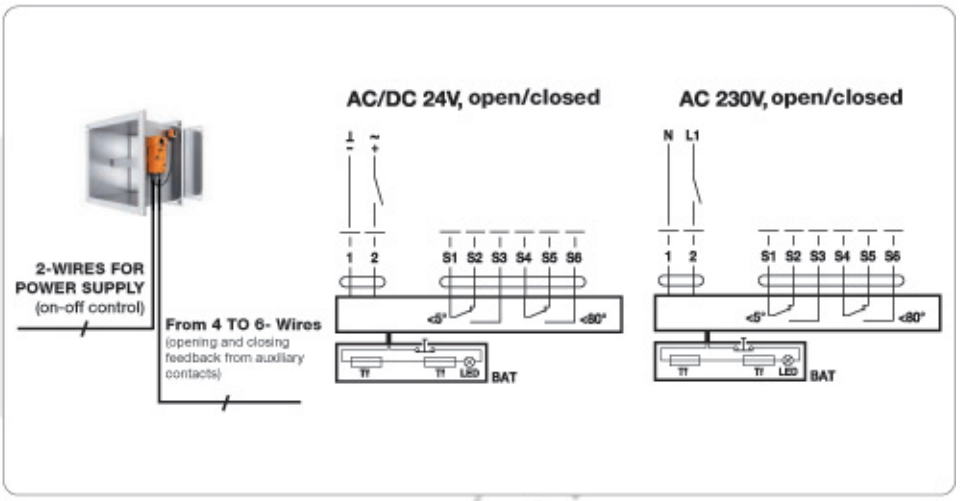
N	H	C
2	200	0
3	300	100
4	400	100
5	500	200
6	600	200
7	700	300
8	800	300

N: number of blades
H: damper height

Fire /smoke control damper

Standard actuator

- BFL24-T
- BFN24-T
- BF24-T
- BFL230-T
- BFN230-T
- BF230-T



Control and warning

Actuators:

- All 24V actuators with T-ST extension
- BFL24-T-ST
- BFN24-T-ST
- BF24-T-ST

BKN230-24

Description

- Power supply and communication unit for actuators for 24V fire damper with ST socket
- Built-in status light
- Possible connection to a smoke detector, without additional power supply
- AC 230V power supply

BKS24-1B

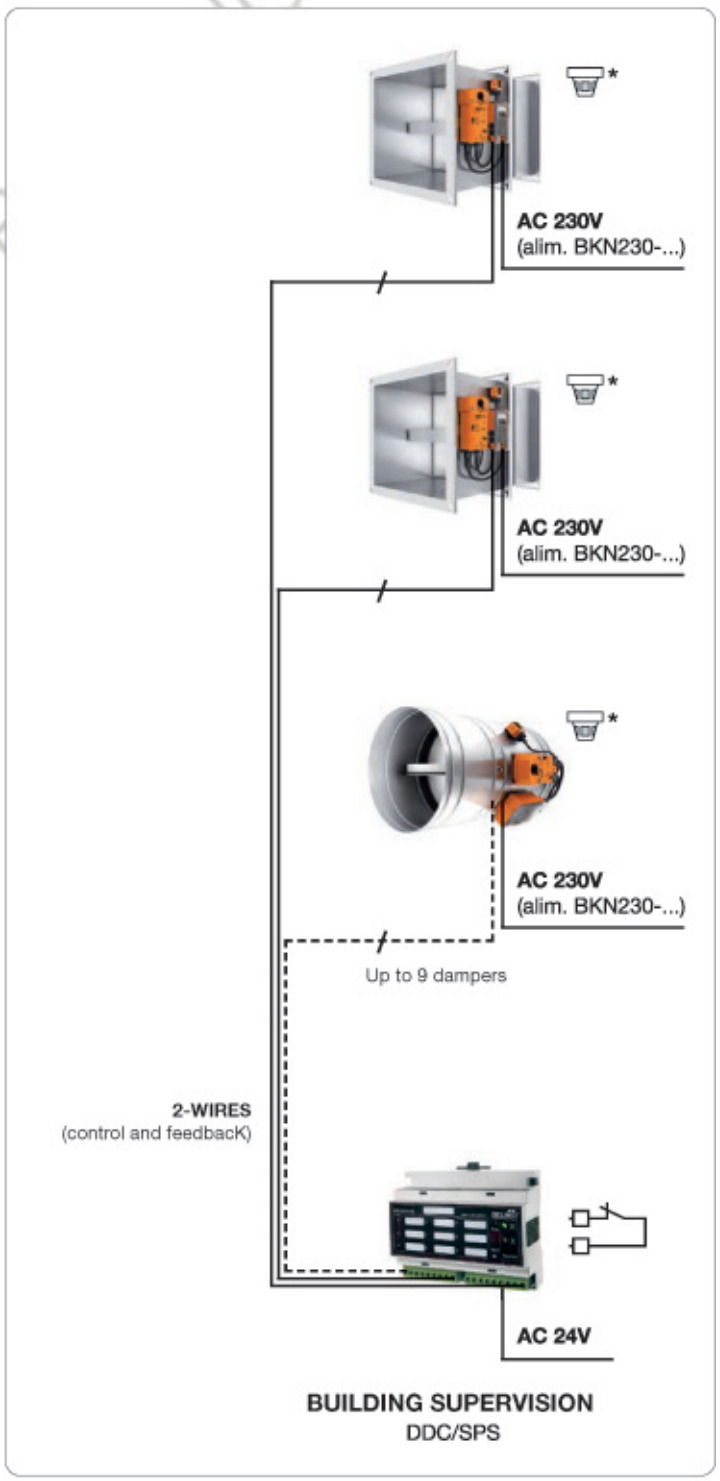
Description

- Communication and control unit for fire damper
- Control and monitoring of 1 damper
- Built-in status light
- ZSO-11 connection base required
- AC 24V power supply

BKS24-9A

Description

- Communication and control unit for fire damper
- Control and monitoring of 9 dampers
- Built-in status light
- Connection plug terminals
- AC 24V power supply



KTM

- **VDI 6022** HYGIENIC STANDARD
- CERTIFICATION FOR ASSEMBLY OUTSIDE THE WALL UP TO 1 METRE

Description

EI 120 S fire damper according to UNI EN 1366-2 classification UNI EN 13501-3 certificate no. 1438-CPR-0509
CE marking - VDI 6022 hygienic certificate

- Construction: Z275 galvanised steel frame th. 10/10 male coupling for direct insertion into the duct, offset blade in calcium silicate mounted on steel shafts and brass bearings, intumescent gasket and perimeter gasket for tightness against cold fumes
- Vertical or horizontal installation
- Leakage Class B of the frame according to EN 1751

Fitted with:

- **Manual version:** with 72°C thermal fuse, spring return and microswitch
- **Motorised version:** actuators with 72°C thermal fuse, spring return, 24V and 230V dual microswitch

- Installations in walls with fire resistance classes EI 120/90/60 with blade installed in the wall or outside
- Ceilings th. 150 mm
- Low density masonry walls (min. 450 Kg/m³) with th. 115 mm
- Plasterboard walls th. 125 mm
- **Outside the wall th. 120 mm up to 1 metre (EI 90S)**
- **Minimum distance wall or duct 10 mm**

EI 120 (ve ho i <-> o) S

KTM (male connection) **UP** (external gaskets), frame 195 mm, with fuse and spring return
KTM-UP - W: frame 195 mm, with fuse, spring return and micro switch (W1 - W2 - W12)

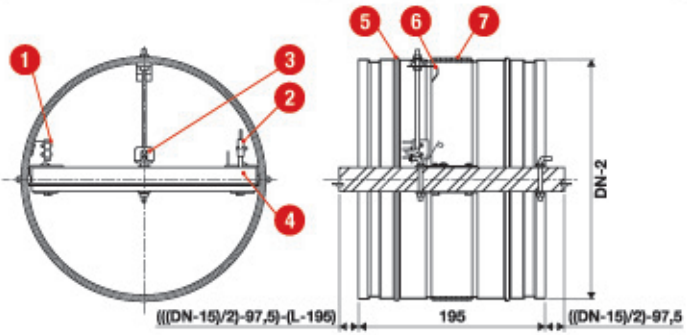
- **W1:** limit switch on closing
- **W2:** limit switch on opening
- **W12:** limit switch opening and closing

KTM-E24T: with actuator with spring return, thermal fuse and double opening and closing micro limit switch, 24V power supply, male connection, 307 mm frame
KTM-E230T: with servomotor with return spring, thermal fuse and double opening and closing micro limit switch, 230V power supply, male connection, 307 mm frame

Special executions

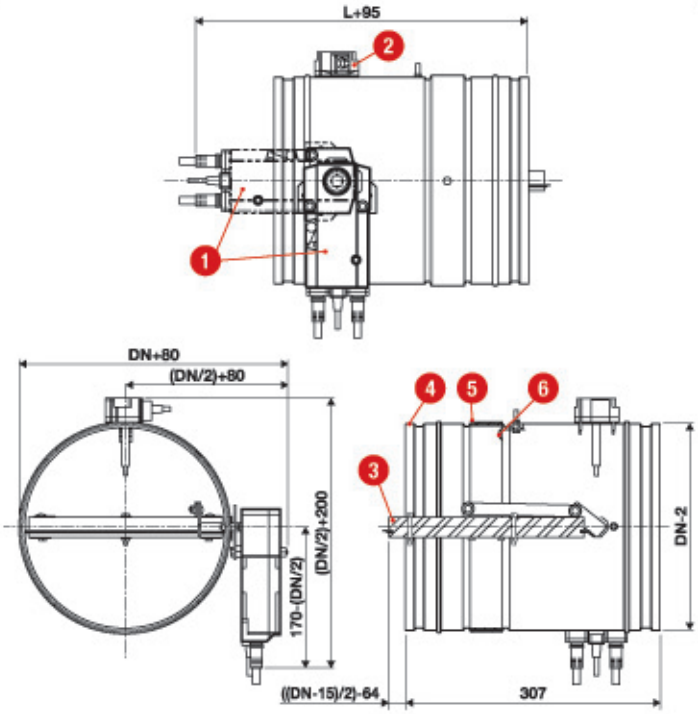
- Execution in AISI 304/316 stainless steel
- Execution in galvanised steel coated according to the RAL table
- Blade treated with solvent-free, silicate-based impregnating agent, for acidic or very humid environments
- 95°C thermal fuse for motorised version
- Special executions for "cabin/container" metal structures with installation outside the wall
- Additional communication systems (see page 10)

Dimensions KTM



Key:
1. Limit switch (closed blade position)
2. Limit switch (open blade position)
3. Thermal fuse
4. Blade
5. Frame
6. Blade stop
7. Internal and external intumescent gasket

KTM-E dimensions



Key:
1. Electric actuator - horizontal and vertical position
2. Thermo-electric fuse device
3. Blade
4. Frame
5. Internal and external intumescent gasket
6. Balde stop