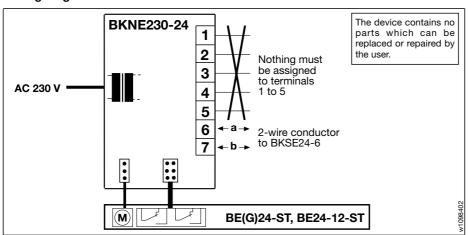


BKNE230-24 Communication and power unit



Wiring diagram



Displays

Software class

Maintenance

Weight

| LED | Status | Function |
|---------------------|--------------------|-------------------------|
| yellow = | flashing light | damper moving to OPEN |
| yellow = | steady light | damper open |
| green | flashing light | damper moving to CLOSED |
| green | steady light | damper closed |
| yellow≡ or | flashing at double | fault |
| green I | frequency | |
| yellow 	≡ +green 	Ţ | dark | power failure |

| Technical data | BKNE230-24 | |
|---------------------------------------|--|--|
| Nominal voltage | AC 230 V 50/60 Hz | |
| Nominal voltage range | AC 198264 V | |
| For wire sizing | 19 VA (with actuator) | |
| Power consumption | 10 W (with actuator) | |
| Connections | | |
| mains | lead 1 m long (halogen free, without plug) | |
| actuator | 6-pin plug, 3-pin plug | |
| *2-wire connector | screw terminals for wire 2 x 1.5 mm ² | |
| *Recommended cable | JE-H (St) Bd FE180/E30-E90 | |
| Protection class | II (all-insulated) | |
| Ambient temperature range | | |
| normal operation | −30+50°C | |
| safety function | see: text/diagram Safety function | |
| storage | -40+80°C | |
| EMC | CE according to 89/336/EEC | |
| Low Voltage Directive | CE according to 73/23/EEC | |
| Mode of operation | type 1 (EN 60730-1) | |

A (EN 60730-1)

680 g

maintenance-free

Monitoring motorized smoke extraction dampers using the BKSE24-6 control unit

Description

The BKNE230-24 is a separate power supply unit for BE(G)24-ST smoke extraction damper actuators. It also serves as a communications interface between the actuators and the BKSE24-6 control and monitoring unit.

Communication / Command memory

The BKNE230-24 signals the damper position OPEN / CLOSED (from switches on the actuator) and any fault alarms to the BKSE24-6 unit. It also receives positioning commands from the control unit and triggers the actuator to the required position. The last control command is retained troughout temporary power failures.

(The factory setting is *Close damper* command stored in the memory).

Monitoring

The BKNE230-24 unit monitors the positions of the switches on the actuator, its running time and the exchange of data with the control and monitoring unit. It also monitors the actuator current (actuator connected?) and the power supply.

Signalling

The power supply unit incorporates two LEDs to signal its functional status.

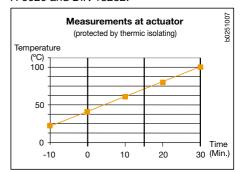
Installation and connection

In order to make installation as simple as possible the smoke extraction damper actuators ...-ST are fitted with plug connectors that can be inserted directly into the BKNE230-24 unit. The 2-wire conductor must be connected to screw terminals 6 and 7.

Note: It is recommended that a fire alarm signal cable suitable for the application be used for the 2-wire conductor. It is essential to ensure the correct polarity.

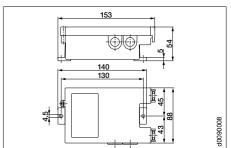
Safety function

The safety function is guaranteed within the temperature range shown in the diagram below which is based on standard ÖNORM H 6029 and DIN 18232.



Typical connections see overleaf.

Dimensions





Your monitoring system for smoke extraction – ensuring safe control and tripping

Safe monitoring and tripping with SBSE-Control

In an emergency, Belimo SBSE-Control automatically takes over control and monitoring of the smoke extraction dampers. So, no valuable time is lost in waiting for the fire brigade to arrive. However, SBSE-Control also allows authorized rescue services to intervene manually if necessary.

The advantages for you

For project design:

- Easy compliance with standards and specifications
- Self-contained control system with universal interface to the fire alarm system
- Easy integration into the overall concept of smoke extraction
- Less planning work.

For installation:

- Minimal wiring
- Only two conductors needed to connect damper to control cubicle
- Wiring errors avoided through the use of prewired connectors on the actuator leads.

For operation and maintenance:

- · Simple commissioning
- Easy local testing
- Monitoring and functional testing can be performed from a central point
- Continuous monitoring of the dampers improves safety and reduces maintenance.

