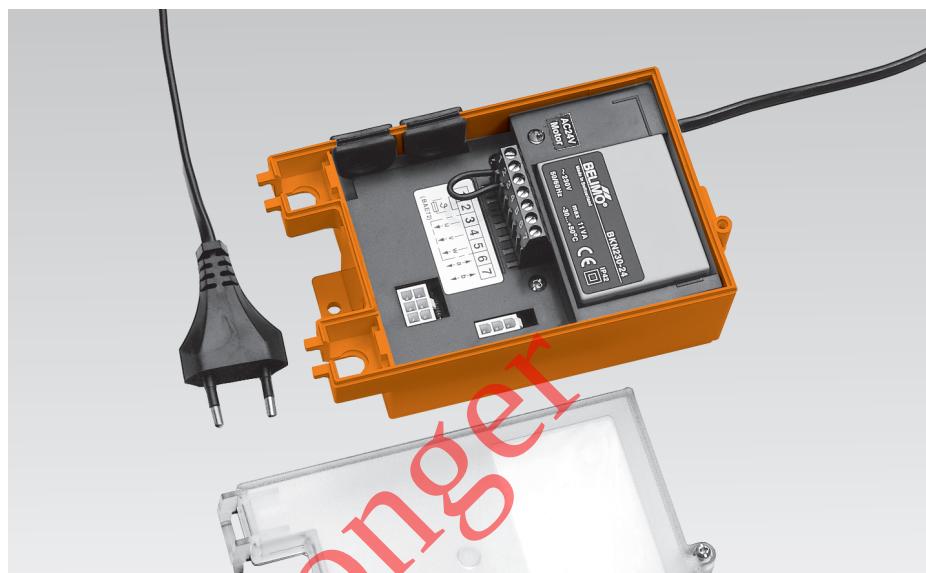


Communication and power supply unit for monitoring of motorized fire and smoke dampers in combination with the communication and control units BKS24-1B oder BKS24-9A



## Technical data

Electrical data	
Nominal voltage	AC 230 V, 50/60 Hz
Nominal voltage range	AC 198 ... 264 V
Power consumption	3.5 W (NORMAL position)
For wire sizing	11 VA (incl. actuator)
Connections	Power supply Actuator Screw terminals
	Cable 0.9 m with Euro-plug type 26 Plug 6 poles, plug 3 poles for wire 2 x 1.5 mm <sup>2</sup>
Safety	
Protection class	II totally insulated ☐
Degree of protection	IP40
EMC	CE according to 2004/108/EC
Low voltage directive	CE according to 2006/95/EC
Ambient temperature	-20° ... +50°C
Non-operating temperature	-40° ... +80°C
Humidity test	95% r.H., non-condensating (EN 60730-1)
Maintenance	Maintenance-free
Dimensions	See «Dimensions» on page 2
Weight	ca. 550 g

## Safety notes



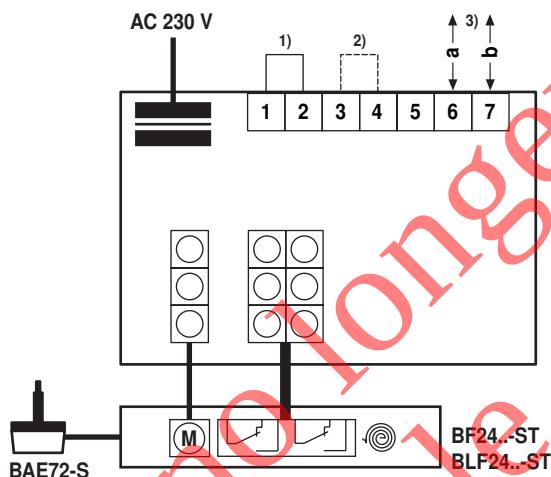
- The device is not allowed to be used outside the specified field of application, especially in aircraft or in any other airborne means of transport.
- It may only be installed by suitably trained personnel. Any legal regulations or regulations issued by authorities must be observed during assembly.
- The device may only be opened at the manufacturer's site. It does not contain any parts that can be replaced or repaired by the user.
- The device contains electrical and electronic components and is not allowed to be disposed of as household refuse. All locally valid regulations and requirements must be observed.

## Product features

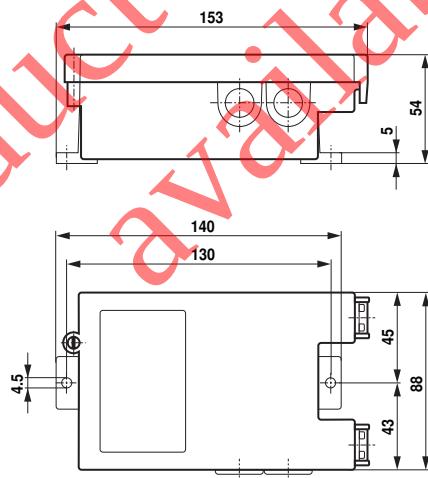
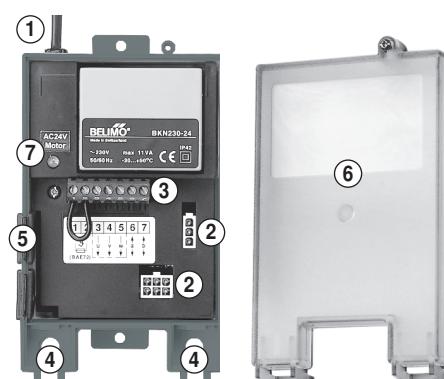
Mode of operation	The BKN230-24 also functions as a distribution power unit for supplying the BF..24..-ST, BLF24-(T)-ST spring-return actuators that is connected to it. Another of its functions is to signal the NORMAL and SAFE positions of the damper (from the switches in the spring-return actuators) to the central control panel over a 2-wire conductor. The same conductor is used for transmitting the ON/OFF control command from the control panel to the damper actuator via the BKN230-24.
Installation and connections	To simplify installation and connection, the spring-return actuator is fitted with connectors which plug directly into the BKN230-24 unit. The 2-wire conductor is connected to the terminals 6 and 7. The terminals 1 and 2 are for the direct connection of thermal trips or smoke detectors.

**Product features***(Continued)***Functional testing**

If it is proposed to test the actuator without the BKS24.. unit connected, it can be switched to NORMAL mode by fitting a jumper between terminals 3 and 4. The green LED in the BKN230-24 unit is bright when power (AC 24 V) is available at the actuator. The SAFE damper position can be checked either by pressing the push-button on the BAE72-S unit or by interrupting the power supply.

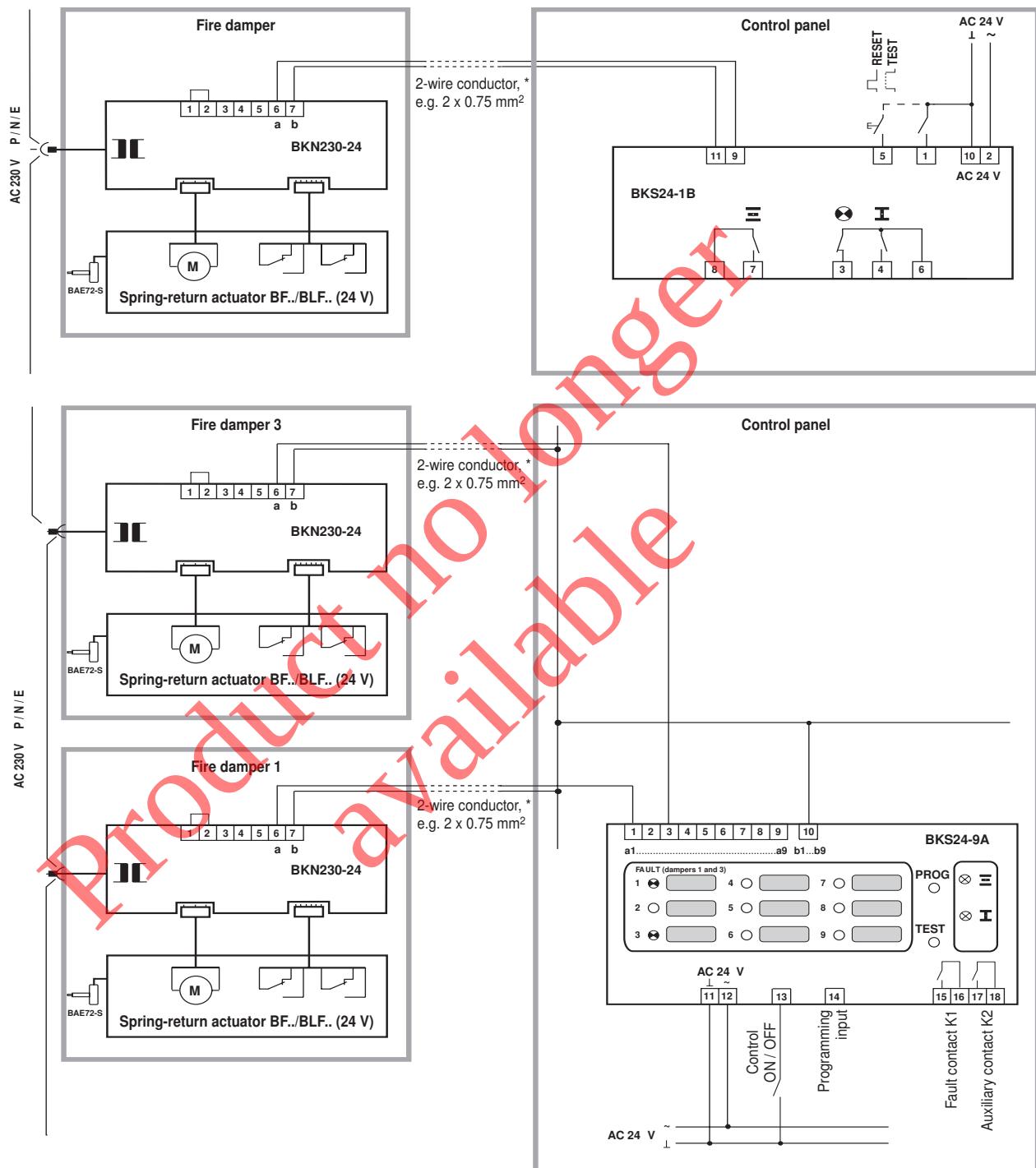
**Electrical installation****Wiring diagram**

1) Jumper factory-fitted. Can be removed if necessary to be replaced by a thermolectric trip (the safety function will be triggered if terminals 1 and 2 are not linked).  
 2) Jumper only used for commissioning purposes and without BKS24-..!  
 3) 2-wire conductor to BKS24-..

**Dimensions [mm]****Dimensional drawings****Indications and connections**

- ① Power supply connection AC 230 V
- ② Plug-in contacts for Belimo actuator 24 V
- ③ Screw terminals 7 poles
- ④ Cable inputs for Belimo actuator
- ⑤ Cable inputs for 2-wire conductor
- ⑥ Transparent protection cover
- ⑦ LED-indication AC 24 V (green)

## Schematic diagrams (Exemples)



\* Lengths of conductors: 2-wire conductors a/b max. 600 m (0.75 m<sup>2</sup>)