



Control and monitoring of motorized fire and smoke dampers in combination with the Communication and Power Supply Unit BKN230-24

Mode of operation

The BKS24-1B unit receives status information about the fire and smoke damper and issues control commands to it via the Communication and Power Supply Unit BKN230-24.

LEDs on the front of the unit signal the operating status of the damper and the presence of faults anywhere in the system.

Floating auxiliary contacts allow the unit to be linked into higher level systems (such as damper end position indicators, fault alarms, fan enabling, etc.).

Function testing of the fire and smoke damper systems by pressing the "RESET/TEST" pushbutton.

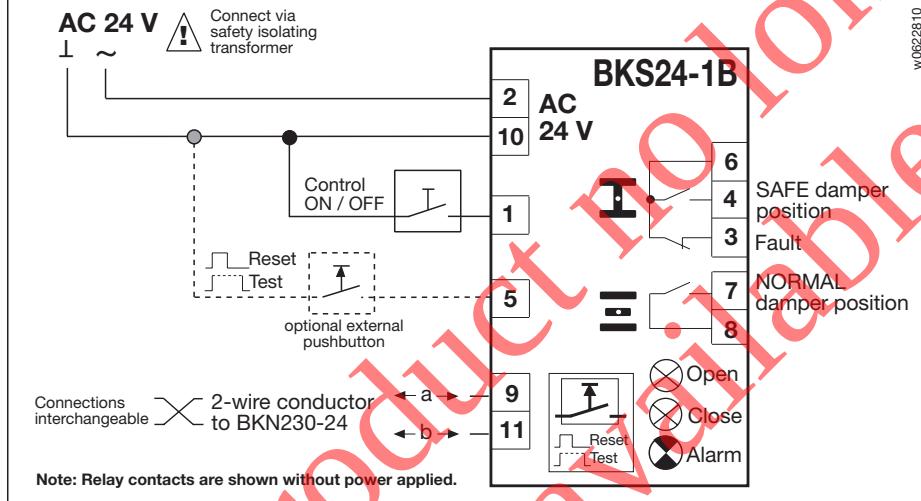
Accessory

ZSO-11 plug socket suitable for 35 mm DIN rail mounting (order separately)

Detailed functional sequences see over.

Typical wiring diagram see over.

Wiring diagram



Signalling and diagnosis

LEDs	Contacts	Description		
Open	Close	Alarm	Status	Causes / Sequence
OFF	OFF	OFF	[6] - [3]	No AC 24 V power supply
ON	ON	ON	[6] - [3]	Test run ca. 35 s, triggered by: AC 24 V energising or by pressing "Reset / Test"
OFF	OFF	flash	[6] - [3]	New fault, possible causes: • Short-circuit or open-circuit in 2-wire conductor or damper fault (BKN...) • No AC 230 V • Defective thermal trip • Smoke detector triggered • Running time exceeded • Damper jammed
OFF	OFF	ON	[6] - [3]	Stored fault • Signal given that there has been a fault in the system and it should be checked
OFF	flash	OFF	[6] - [4]	Damper (actuator) moving to the safe position
OFF	ON	OFF	[6] - [4]	Damper in the safe position I
flash	OFF	OFF	[8] - [7]	Damper (actuator) moving to the operating position
ON	OFF	OFF	[8] - [7]	Damper in the operating position III

Technical data

BKS24-1B	
Nominal voltage	AC 24 V 50/60Hz
Nominal voltage range	AC 19.2...28.8 V
For wire sizing	3 VA
Power consumption	2.5 W
Connection	Submagnal connector 11 pole, suitable for ZSO-11 socket (ZSO-11 plug socket not included, order separately!)
Auxiliary switches	6 A (2 A), AC 24 V
Protection class	II (safety low voltage)
Degree of protection	IP 30
Ambient temperature range	0...+ 50 °C
EMC	CE according to 89/336/EEC
Maintenance	maintenance free
Weight	150 g

Dimensions

