



Safety function triggered by make-circuit pulse

Electrical isolation of circuit components in safe/operating modes

Pluggable connections for actuator and tripping device BAE72-F-ST

Adapter box with IP42 protection for strain-relief cable glands

Application

Control of BF24...-ST, BF48...-ST and BR24-48...-ST actuators for fire/smoke dampers.

Mode of operation

The energise command (power to terminals 1/2) brings the actuator to the operating or ready state.

A voltage pulse of 0.7 s duration to terminals 3/4 brings the actuator to the safe state, which is sustained and takes absolute priority over the ready state.

To return the actuator to the ready state, the power supply to terminals 1/2 must be interrupted for approximately 5 s in order to erase the safe-state memory.

The components of the operating and safe mode circuits are electrically isolated from each other. This means that the pulse triggering can also be effected from a separate power source if necessary.

Monitoring of the safe-mode control conductor by means of current loops in safety systems such as SICLI (F) is possible.

Signalling of damper position is brought to limit switch terminals 1/2 (safe state) and 4/6 (ready state).

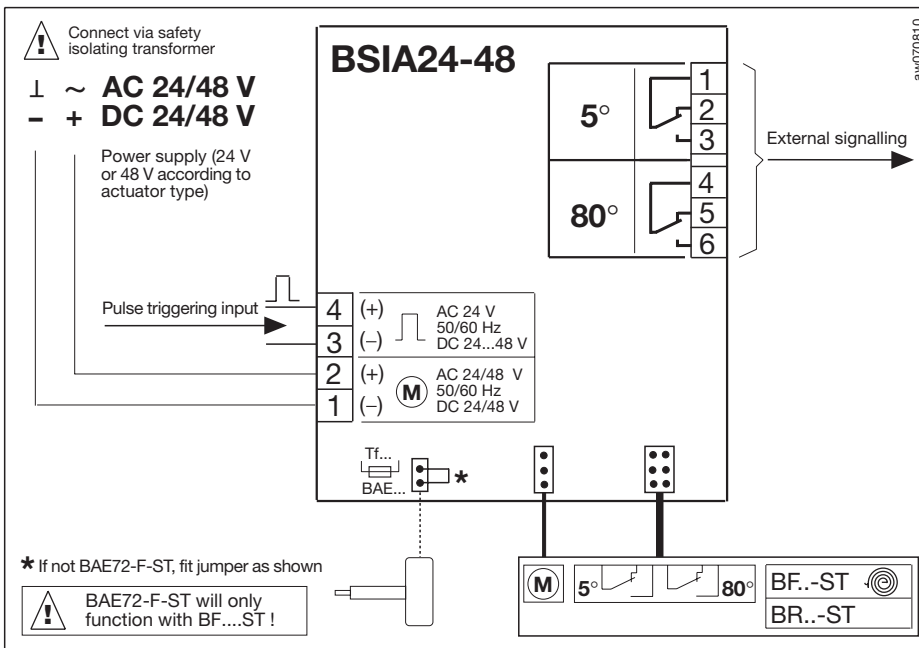
Electrical accessories

BAE72-F-ST Thermoelectric tripping devices (only fire dampers)
BAE72-S-F-ST

Mechanical accessories

ZSN-BF Mounting kit for auxiliary switches SN1, SN2

Wiring diagram



| Technical data | BSIA24-48 |
|--|---|
| Nominal voltage (according to actuator type) | AC 24/48 V 50/60 Hz DC 24/48 V |
| Nominal voltage range | AC/DC 20.4 ... 57.6 V |
| For wire sizing (terminals 1/2) | 1.5 VA @ 24 V / 3.5 VA @ 48 V (without actuator) |
| Power consumption (terminals 1/2) (terminals 3/4) | 1 W @ 24 V / 1.5 W @ 48 V (without actuator) 0.2 W @ 24 V / 0.4 W @ 48 V |
| Connection | Screw terminals for 1 x 2.5 mm ² |
| Power supply input for actuator (terminals 1/2) | AC 24/48 V or DC 24/48 V (24 V or 48 V according to connected actuator type) |
| Pulse triggering input (terminals 3/4) | AC 24 V or DC 24 ... 48 V 0.7 s ± 0.2 s (NFS 61.937/524) |
| Protection class | III (NFC 20.030) |
| Degree of protection | IP 42 (NFS 61.937/423) |
| Ambient temperature range | - 30 ... + 50° C (+ 70° C / 1 h) |
| EMC | CE according to 89/336/EEC and 92/31/EEC |
| Box | NFC 20.445 / NFS 61.937 |
| Maintenance | maintenance free |
| Weight | 250 g |

Subject to technical changes / 10.98

Dimensions

