

Thermoelectric tripping device for fire dampers in ventilation and air-conditioning systems

- Nominal voltage AC/DC 24 V
- Response temperature duct 72°C
- Duct probe length 65 mm
- Tested acc. to ISO 10294-4
- Shielded connecting cable



Technical data

Electrical data	Nominal voltage	AC/DC 24 V
	Nominal voltage frequency	50/60 Hz
	Rated current	1 A
	AC/DC throughput resistance	<1 Ω
	Connection supply	Cable 1 m, 2 x 0.5 mm ² , shielded, Betaflam cable heat-resistant up to 145°C
Functional data	Probe length	65 mm
Safety data	Response temperature thermal fuse	Duct inside temperature 72°C (colour black) Duct outside temperature 72°C
	Protection class IEC/EN	III, Safety Extra-Low Voltage (SELV)
	Degree of protection IEC/EN	IP54
	EMC	CE according to 2014/30/EU
	Low voltage directive	CE according to 2014/35/EU
	Rated impulse voltage supply	0.8 kV
	Pollution degree	3
	Ambient temperature	-30...55°C
	Storage temperature	-40...55°C
	Ambient humidity	Max. 95% RH, non-condensing
Servicing	maintenance-free	
Weight	Weight	0.088 kg
	Packaging quantity	Multipack 50 pcs.

Safety notes



- The device must not be used outside the specified field of application, especially not in aircraft or in any other airborne means of transport.
- Cables must not be removed from the device.
- 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 must not be disposed of as household refuse. All locally valid regulations and requirements must be observed.

Product features

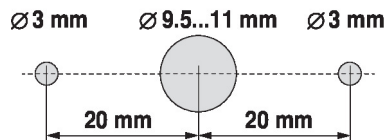
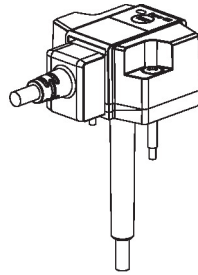
Mode of operation The thermoelectric tripping device complies with the specific requirements of the standard ISO 10294-4.

If the ambient temperature of 72°C is exceeded, then the duct outside temperature fuse will respond. If the duct inside temperature of 72°C is exceeded, then the duct inside temperature fuse will respond. When one of the thermal fuses responds, the supply voltage is interrupted permanently and irreversibly.

The temperature fuse for the ambient temperature protects the actuator from overheating and cannot be replaced. The actuator must be replaced when the duct outside temperature fuse is triggered. The temperature fuse for the duct inside temperature can be replaced, see section "Accessories".

The function (interruption of the supply voltage) can be checked by pressing the test button.

Simple direct mounting Installation is carried out with the pre-assembled, self-drilling and self-tapping screws.



Connection The connecting cable is equipped with shielding that is connected to an additional connection (see section "Electrical Installation"). Via this shielding connection, a suitable external electrical control can monitor and evaluate whether, for example, during an event of a fire, a short-circuit has occurred between the wires and the shielding in the connecting cable. The short-circuit signal can be used by means of sequential control, for example, in the case of a motorised fire damper, to permanently interrupt the supply voltage of the connected electrical actuator to prevent the fire damper from reopening electrically.



Response temperature thermal fuse The response temperature for the duct inside temperature fuse is 72°C (factory default). Optionally, 95°C, 120°C and 140°C can also be used. See section "Accessories".

The response temperature is indicated by the material colour of the duct probe and is also shown on the product data label:

Black (BK) = 72°C (standard)

Grey (GY) = 95°C (as an option with ZBAT95)

Orange (OG) = 120°C (as an option with ZBAT120)

Red (RD) = 140°C (as an option with ZBAT140)

The response temperature for the duct outside temperature fuse (ambient temperature) is fixed at 72°C and cannot be changed.

Probe length The standard length of the duct probe is 65 mm. A length of 90 mm is also available as an option. This option is marked with "/9" in the product name. See section "Accessories".

Delivery notes Incl. Screws

Accessories

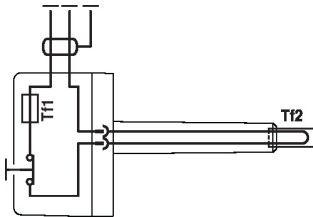
Electrical accessories	Description	Type
	Blanking cover for BAT (without thermal fuse for duct inside temperature), Multipack 20 pcs.	ZBAT0
	Spare tripping element for BAT, Duct inside temperature 72°C (colour black)	ZBAT72
	Spare tripping element for BAT, Duct inside temperature 72°C (colour black)	ZBAT72/9
	Spare tripping element for BAT, Duct inside temperature 95°C (colour grey)	ZBAT95
	Spare tripping element for BAT, Duct inside temperature 95°C (colour grey)	ZBAT95/9
	Spare tripping element for BAT, Duct inside temperature 120°C (colour orange)	ZBAT120
	Spare tripping element for BAT, Duct inside temperature 140°C (colour red)	ZBAT140

Electrical installation



Supply from isolating transformer.

Wiring diagrams
AC/DC 24 V



Wire colours

- White = Thermal fuses
- Red = Thermal fuses
- Black = Shielding

Thermal fuses

- Tf1 = Duct outside temperature fuse
- Tf2 = Duct inside temperature fuse (replaceable)

Dimensions

Dimensional drawings

