



The technical specifications might not be congruent.

- SAFA...08 S (T) series
- NENUTEC security damper actuators are especially designed for fire damper applications in different sizes according fire protection inspection EN 1366-2. Suitable for smoke damper applications.
- SAFA...08 S (T) spring return damper actuators, tension the spring return while the actuator moves the damper to its normal working position. In case of emergency (power supply is interrupted or thermal tripping device is over heated) the stored energy in the spring triggers and moves the damper back to its safe position.

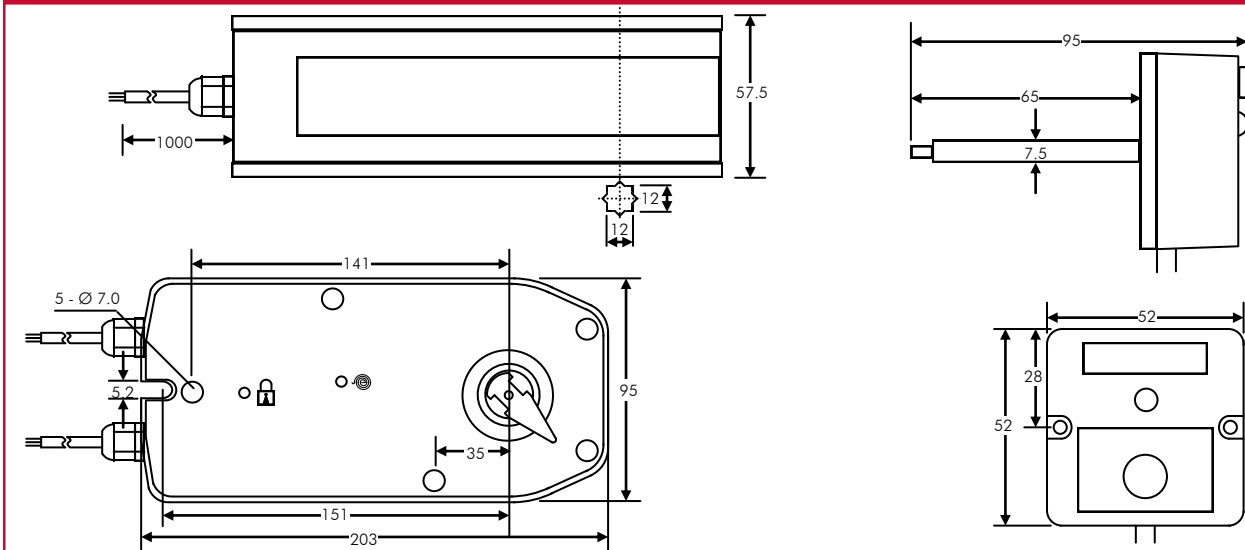
Product Features

- Torque 8 Nm
- Damper size 1.5 m²
- Power Supply AC/DC 24 V and AC 230 V
- Control 2 Point (Open/Closed)
- 2 auxiliary switches not adjustable (SPDT)
- Shaft dimensions standard □12/12 mm square (Insert □10/10 mm square / □8/8 mm available)
- Minimum shaft length 10 mm
- Selectable direction of rotation
- Actuator with 1000 mm cable connection
- Thermal duct and ambient sensor on request
- Manual override with crank handle
- Customer version on request





Model Selection Table

| Torque | Running Time | Power Supply | Auxiliary Switch | Thermal Sensor | Model / Type |
|--------|------------------------------|------------------|------------------|----------------|---------------|
| 8 Nm | Ⓜ 100...120 sec / Ⓢ ≤ 20 sec | AC/DC 24 V ± 10% | 2 x SPDT | No | SAFA 1-08 S |
| 8 Nm | Ⓜ 100...120 sec / Ⓢ ≤ 20 sec | AC/DC 24 V ± 10% | 2 x SPDT | Yes (SAF 72-1) | SAFA 1-08 S T |
| 8 Nm | Ⓜ 100...120 sec / Ⓢ ≤ 20 sec | AC 230 V ± 10% | 2 x SPDT | No | SAFA 2-08 S |
| 8 Nm | Ⓜ 100...120 sec / Ⓢ ≤ 20 sec | AC 230 V ± 10% | 2 x SPDT | Yes (SAF 72-1) | SAFA 2-08 S T |

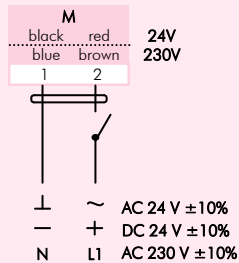
Actuator Dimensions (mm)



Technical Specifications

| | SAFA 1... S (T) | SAFA 2... S (T) |
|--|---|--|
| Torque  | 8 Nm | 8 Nm |
|  | 8 Nm | 8 Nm |
| Damper Size | 1.5 m ² | 1.5 m ² |
| Shaft dimensions | □12 mm square (□8/8mm and □10/10mm insert) | □12 mm square (□8/8mm and □10/10mm insert) |
| Power Supply | AC/DC 24 V ± 10% | AC 230 V ± 10% |
| Frequency | 50 - 60 Hz | 50 - 60 Hz |
| Control Signal | 2 point Open/Closed | 2 point Open/Closed |
| Power Consumption | | |
| - Operating | 7.0 W | 8.0 W |
| - End Position | 2.0 W | 5.5 W |
| For Wire Sizing | 8.0 VA | 8.0 VA |
| Auxiliary Switch Rating | 3 (1.5) A, AC 250 V | 3 (1.5) A, AC 250 V |
| Protection Class | III  | II  |
| Angle of Rotation | 0°...90° (-5°...90° mechanical) | 0°...90° (-5°...90° mechanical) |
| Angle of Limiting | mechanical end stop | mechanical end stop |
| Weight | 2.4 Kg | 2.5 Kg |
| Life Cycle | 60'000 rotation | 60'000 rotation |
| Sound Level | 45 dB (A) | 45 dB (A) |
| IP Protection | IP 54 (dust protected & protected against splash water) | IP 54 (dust protected & protected against splash water) |
| Thermal Sensor Temperature | +72° (Duct Sensor and ambient Sensor) | +72° (Duct Sensor and ambient Sensor) |
| Operating Temperature | -20°...+50° C / IEC 721-3-3 | -20°...+50° C / IEC 721-3-3 |
| Inventory Temperature | -30°...+60° C / IEC 721-3-2 | -30°...+60° C / IEC 721-3-2 |
| Ambient Humidity | 5%...95% rH non condensing / EN 60730-1 | 5%...95% rH non condensing / EN 60730-1 |
| Maintenance | Maintenance free | Maintenance free |
| Mode of Operation | Type I / EN 60730-1 | Type I / EN 60730-1 |
| Mode of Fire Protection | EN 1366-2 | EN 1366-2 |
| EMC | CE according to 89 / 336 / EEC | CE according to 89 / 336 / EEC |

Wiring Diagram SAFA 1/2...S (T) Power Supply AC/DC 24 V - AC 230 V



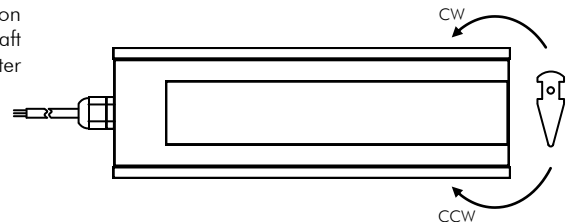
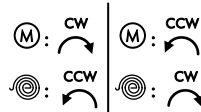
2 Point

⚠ Connect via safety isolating transformer

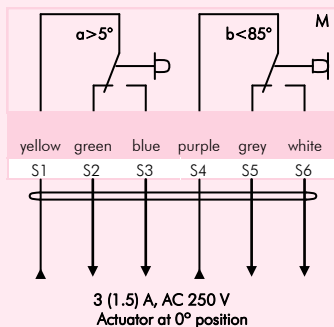
Changing Direction of Rotation SAFA 1/2... S (T)

Factory-set CW!

The direction of rotation can be defined depending on the assembly of the shaft adapter inclusive adapter ring. Important remark:



Wiring Diagram SAFA 1/2... S (T) Auxiliary Switches



3 (1.5) A, AC 250 V
Actuator at 0° position

Fixed Auxiliary Switch SAFA 1/2... S (T)

Auxiliary Switch **a** is not adjustable. It is factory-set at $> 5^\circ$ or $< 5^\circ$.

Auxiliary Switch **b** is not adjustable. It is factory-set at $< 85^\circ$ or $> 85^\circ$.

Remark

Both auxiliary switches are not adjustable!

Thermal Sensor

The thermal sensor SAF 72-1 consists of a duct and an ambient sensor.

The thermal sensor is correctly mounted when it is placed beside the actuator and the duct sensor goes into the duct.

The duct sensor and/or the ambient sensor will be tripped when the duct and ambient temperature rises above 72°C and then the mechanical spring of the actuator will close the damper immediately.

Thermal Sensor SAF 72-1

