

Actuator for smoke control dampers 90°

- Torque motor 15 Nm
- Nominal voltage AC/DC 24 V
- Control Open/close
- Mechanical interface Form fit 12x12 mm, continuous hollow shaft



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| Nominal voltage | AC/DC 24 V |
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| Nominal voltage frequency | 50/60 Hz |
| Nominal voltage range | AC 19.228.8 V / DC 21.628.8 V |
| Switching thresholds min. ON voltage | AC 19.2 V / DC 21.6 V |
| Switching thresholds max. OFF voltage | AC 6.5 V / DC 6.5 V |
| Power consumption in operation | 7.5 W |
| Power consumption in rest position | 0.5 W |
| Power consumption for wire sizing | 9 VA |
| Power consumption for wire sizing note | Imax 2.7 A @ 5 ms |
| Auxiliary switch | 2 x SPDT |
| Switching capacity auxiliary switch | 1 mA3 A (0.5 A inductive), DC 5 VAC 250 V (II, reinforced insulation) |
| Switching points auxiliary switch | 3° / 87° |
| Tolerance | ±2° |
| Connection supply / control | Cable 1 m, 3 x 0.75 mm ² , halogen-free |
| Connection auxiliary switch | Cable 1 m, 6 x 0.75 mm², halogen-free |
| Torque motor | 15 Nm |
| Inhibiting targue dynamic | 1E Nm |

Functional data

| Functional data | Torque motor | 15 Nm |
|-----------------|--|--|
| | Inhibiting torque dynamic | 15 Nm |
| | Inhibiting torque static (voltage-free) | 20 Nm |
| | Direction of motion motor | selectable by mounting L/R |
| | Manual override | with hand crank |
| | Angle of rotation | Max. 105° |
| | Angle of rotation note | including mechanical overrun at both sides |
| | Running time motor | <30 s / 90° |
| | Sound power level, motor | 62 dB(A) |
| | Mechanical interface | Form fit 12x12 mm, continuous hollow shaft |
| | Position indication | Mechanically, with pointer |
| | Service life | Min. 10'000 cycles |
| Safety data | Protection class IEC/EN | III, Safety Extra-Low Voltage (SELV) |
| | Protection class auxiliary switch IEC/EN | II, reinforced insulation |
| | Degree of protection IEC/EN | IP54 |

| Service inc | Will. To ooo cycles |
|--|--------------------------------------|
| Protection class IEC/EN | III, Safety Extra-Low Voltage (SELV) |
| Protection class auxiliary switch IEC/EN | II, reinforced insulation |
| Degree of protection IEC/EN | IP54 |
| EMC | CE according to 2014/30/EU |
| Low voltage directive | CE according to 2014/35/EU |
| Certification IEC/EN | IEC/EN 60730-1 and IEC/EN 60730-2-14 |
| Mode of operation | Type 1.B |
| Rated impulse voltage supply / control | 0.8 kV |
| Rated impulse voltage auxiliary switch | 4 kV |
| Pollution degree | 3 |
| Ambient temperature | -3050°C |



| Technical data sheet | BLE24 |
|----------------------|-------|
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Safety data

| Storage temperature | -4080°C |
|---------------------|-----------------------------|
| Ambient humidity | Max. 95% RH, non-condensing |
| Servicing | maintenance-free |
| Weight | 1.5 kg |

Safety notes



Weight

- The device must not be used outside the specified field of application, especially not in aircraft or in any other airborne means of transport.
- The actuator is adapted to and installed on the smoke control damper by the damper manufacturer. For this reason, the actuator is only supplied direct to safety damper manufacturers. The manufacturer then bears full responsibility for the proper functioning of the damper.
- The two switches integrated in the actuator are to be operated either on power supply voltage
 or at safety extra-low voltage. The combination power supply voltage/safety extra-low voltage
 is not permitted.
- 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

2-wire open/close control. The actuator is overload-proof and can thus remain energised even at the end stops.

Manual override

The hand crank included in the shipment can be used for manual operation of the actuator.

Signalling

Two microswitches with fixed settings are installed in the actuator for indicating the damper end positions. It should be noted with this application however that the contacts can no longer be used in the milliampere range after larger currents have been applied to them, even if this has taken place only once.

The position of the damper blade can be read off on a mechanical position indication.

Standards / Regulations

The design of the actuator is based on the specific requirements from the European standards:

EN 12101-8: Smoke and heat control systems - Part 8: Smoke control dampers

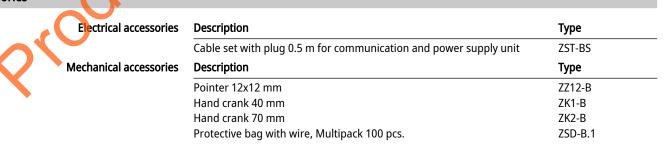
EN 1366-10: Fire resistance tests for service installations - Part 10: Smoke control dampers

EN 13501-4: Fire classification of construction products and building elements - Part 4:
 Classification using data from fire resistance tests on components of smoke control systems

Delivery notes

Incl. Hand crank, Pointer, Protective bag

Accessories



Electrical installation



Supply from isolating transformer.

Parallel connection of other actuators possible. Observe the performance data and the switching thresholds.

Combination of power supply voltage and safety extra-low voltage not permitted at the both auxiliary switches.



Wiring diagrams

AC/DC 24 V, open/close

