

# BF24TL-T-ST Spring-return actuators 90°



## Fire damper actuator for BUS integration

### AC/DC 24V

#### Application

The type BF24TL-T-ST actuator is intended for the operation of fire dampers, which are integrated in to BMS Systems.

#### Mode of operation

The BF24TL-T-ST- actuator moves the damper to its normal working position while tensioning the return spring at the same time. If the power supply is interrupted, the energy stored in the spring moves the damper back to its safe position.

#### Enhanced safety with digital data transmission

The integration in a BUS system allows access to additional information's:

- Actual position (Angle) of actuator
- Messages e.g. damper OPEN / moving to OPEN, CLOSE / moving to CLOSE.
- Condition of BAE
- Alarm messages e.g. damper blocked, BAE tripped.
- Remote operated functional test
- Condition of smoke detector.

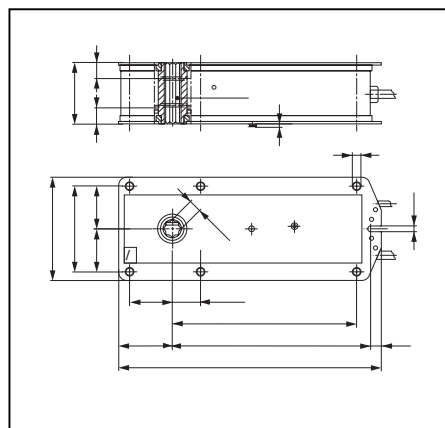
#### Manual operation

Without power supply the damper can be operated manually and fixed in any position. Release of the locking mechanism can be achieved manually or automatically by applying the supply voltage.

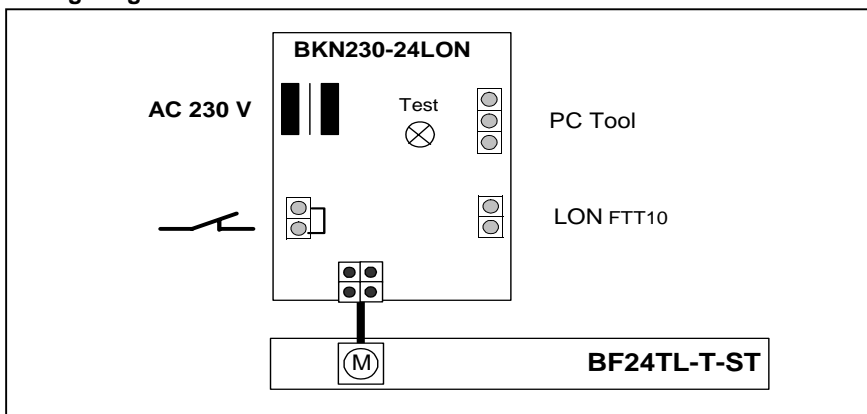
#### Electrical accessories

BKN230-24LON  
BKN230-24MP

#### Dimensions



### Wiring Diagram



Technical Data	BF24TL-T-ST
Nominal voltage	AC 24V 50/60 Hz DC 24V
Nominal voltage range	AC 19.2...28.8 V DC 21.6...28.8 V
For wire sizing	10 VA (I max. 8,3 A @ 5 ms)
Power consumption	
- Motoring	ca. 7 W
- Holding	ca. 2 W
Connection	With Plug fitting to BKN230-24LON
Cable	1m, 4x0.75 mm <sup>2</sup> halogen free
Angle of rotation	95° (incl. 5° spring pre tensioning)
Torque	
- Motor	Min. 18 Nm
- Spring	min. 12 Nm
Damper rotation	Form-fit 12 x 12 mm
Running time	
- Motor	ca. 140s
- Spring return	ca. 16s (t amb. 20°C)
Direction of rotation	Selected by mounting L/R
Position indication	Mechanical with pointer
Ambient temperature range	
- Normal duty	-30...+50°C
- Safety duty	...+75°C for 24h (guaranteed safety when thermal trip is activated)
Non operating temperature	-40...+50°C
Humidity test	according EN 60335-1
Sound power level	
- Motor	max. 45 dB
- Spring	ca. 62 dB
Protection class	III
Degree of protection	IP 54
EMC	CE according 89/336/EEC, 92/31/EEC and 93/68/EEC
Low voltage device	CE according 73/23/EEC
Service live	min. 60'000 safe positions
Maintenance	Maintenance free
Weight	ca. 2'800g

For internal use only

Subject to technical changes