Technical data sheet MLF 24T1 / MLF 230T1

Spring-return actuator, combined with thermoelectric tripping device (72°C), for fire and smoke dampers 90° in ventilation and air-conditioning systems:

- **Shaft size up to 12 mm**
- **Nominal voltage 24VAC/DC / AC90-250V**
- **Nominal torque 5 Nm**
- **On/off type can be controlled by manual**
- **Two fixed auxiliary switches available**
- **Using fixed, compact and anti-impact steel shell.**
- **With IP54 standard**
- **Used in different mounting size mandril accessories that with fireproofing and mounting easily.**
- **With 1m cable connection**
- **Energy saving at end stops**
- **Manual Over ride by crank handle when required**

Technical data

Nominal voltage	24VAC/DC	AC90-230 V
Nominal voltage frequency	50/60 Hz	
Power consumption in operation	7,2 W	4,2 W
Power consumption at rest	2,5 W	
Power consumption for wire sizing	10 VA	
Auxiliary Switches Rating (Amp and Voltage)	3 (1.5) A / 230 V (for 24 V and 230 V)	
Running time	Motor 75S；Spring return 20S	
Weight	1.6Kg	
Rotation angle	0~90°（max 93º）	
Auxiliary switch rating	3（1.5）Amp 250V	
Life cycle	70000	
Electric level	III	II
IP protection	IP54	
Temperature	-20~+50℃	
Humidity	5~95%RH	
Storage temperature	-40~+70℃	
Certificate	CE & ISO9000EN	
Thermal sensor	72℃	

Safety notes

• The actuator is not allowed to be used outside the specified field of application, especially in aircraft or in any other airborne means of transport.

• Caution: Power supply voltage!

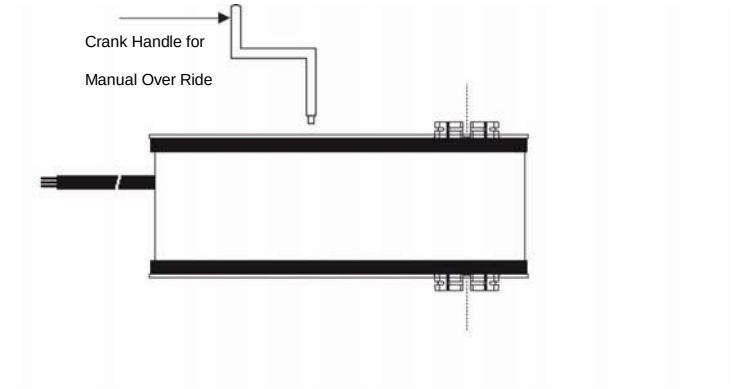
• The actuator is adapted and mounted to the fire and smoke damper by the damper manufacturer. For this reason, the actuator is only supplied direct to safety damper manufacturers. The manufacturer then bears full responsibility for the proper functioning of the damper.

• The 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.

Manual operation instruction

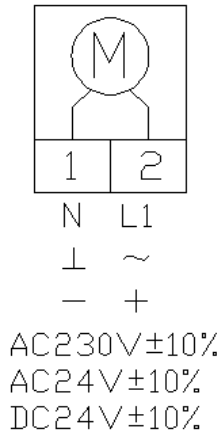
Insert the hand handle into the hex hole, smoothly and slowly turn around the handle by clockwise (or counter clockwise) rotation, according to the diagram of the product label. At the same time, the outputshaft will follow and turn by clockwise (or counter clockwise) rotation. When the outputshaft moves to the required position, then turn the handle conversely by counter clockwise rapidly (or clockwise) with 90 ℃,（Should not use the manual lock while the turbine springs is bouncing back, otherwise, the fast reversing standstill locking part could bumps into the springs. And the result of manual lock-on system would be malfunctioned.）meanwhile the outputshaft will be blocked. Then turn slightly the handle by another clockwise (or counter clockwise), the outputshaft will move again.

[Attention]:Please do not operate manually when the actuator is speedy rebounding, otherwise it causes easily unlocking by manual or assembly damage.

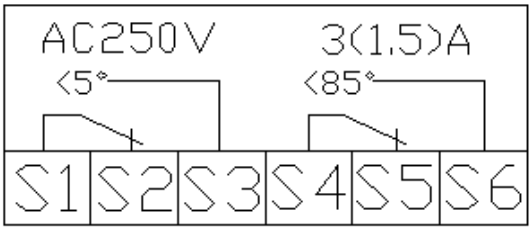


Wiring diagram

Actuator:

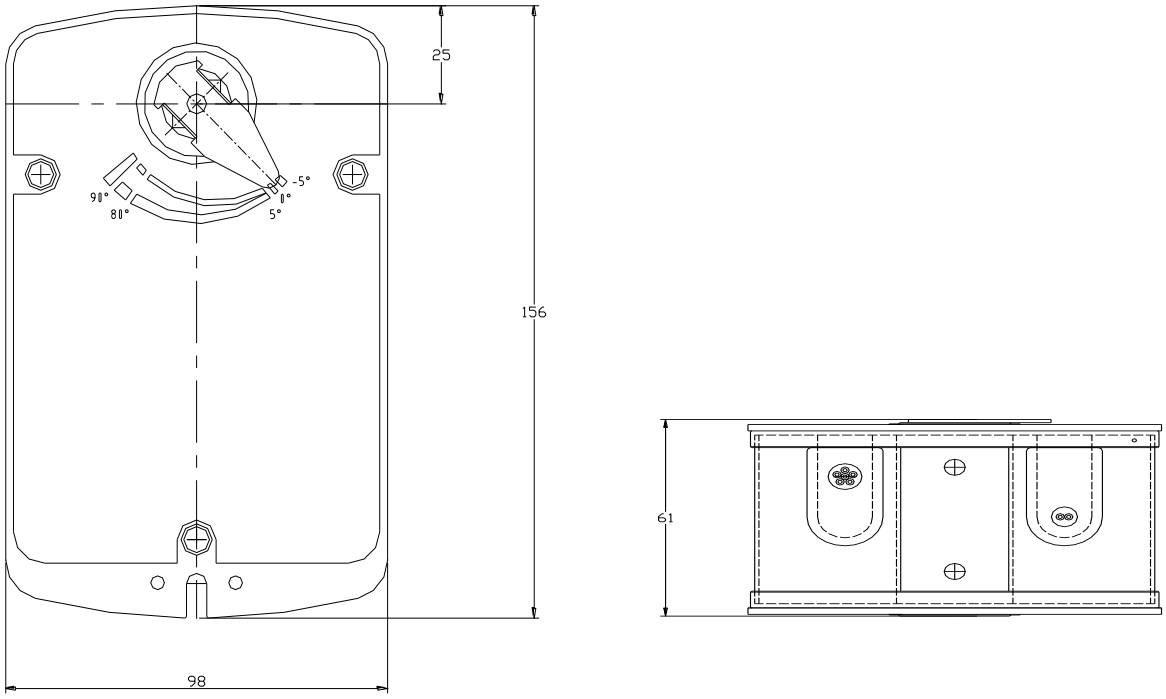


Auxiliary switch：



Dimensions

Actuator



Thermal Sensor