

Technical data sheet

UL-360S-230-090-S2/RE25 Spring return actuator for fire and smoke protection

Description

Spring return actuator for adjusting UL 555/555S fire and smoke protection dampers in HVAC installations

Running time motor
Running time spring
Torque motor
Torque spring
Nominal voltage
Control
Tongue motor
230 VAC/DC
2-point

Auxiliary switch
 Shaft coupling
 2x fixed, not adjustable clamp

Ø 0,35-1,02 in [9-26 mm]



Technical data

Electrical data	Nominal voltage	230 VAC/DC, 50/60 Hz
	Nominal voltage range	85265 VAC/DC
	Power consumption motor (motion)	7,0 W
	Power consumption standby (end position)	1,5 W
	Wire sizing	11,5 VA
	Control	2-point
	Feedback signal	-
	Auxiliary switch	2 x SPDT (AgAu)
	Contact load	1 mA5 (2,5) A, 5 VDC250 VAC
	Switching point	5° / 80°
	Connection motor	cable 3,2 ft [1000 mm], 2 x AWG 18
	Connection auxiliary switch	cable 3,2 ft [1000 mm], 6 x AWG 18
	Connection GUAC	-
Functional data	Torque motor	90 in-lb [10 Nm]
	Torque spring	90 in-lb [10 Nm]



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Functional data	Synchronised speed	5%
	Direction of rotation	selected by mounting
	Manual override	manual operation
	Angle of rotation	-5°max. +90°
	Running time motor	75 s / 90°
	Running time spring	10 s / 90°
	Sound power level motor	< 45 dB(A)
	Sound power level spring	< 65 dB(A)
	Shaft coupling	clamp Ø 0,35-1,02 in [9-26 mm]
	Position indication	mechanical with pointer
	Service life	> 60 000 cycles (-5°+90°5°)
	Thermal tripping device	-
	Temperature TF1	-
	Temperature TF2	-
Safety	Protection class	II (double insulation)
	Degree of protection	IP 54
	UL	UL 873 UL 94 5V
	Mode of operation	Typ 1 (UL 60730-2-14)
	Rated impulse voltage	4 kV (UL 60730-2-14)
	Control pollution degree	2 (UL 840)
	Amhient temperature normal	-22°F +122°F [-30°C +50°C]

Ambient temperature normal operation	-22°F+122°F [-30°C+50°C]
Ambient temperature safety operation	-
Storage temperature	-22°F+122°F [-30°C+50°C]
Ambient humidity	595% r.H., non condensing (UL 60730-1)
Maintenance	maintenance free

Dimensions / Weight	Dimensions	7,6 x 3,8 x 2,4 in [193 x 96 x 60 mm]
	Weight	3,75 lb [1700 g]



Functionality / Properties

Operating mode

Connect power supply to wire 1+2, actuator drives to postion 1 while the pre-tensioned spring is wound up the same time. If the power supply is interrupt, actuator drives back to position 0 by spring power. The actuator is still maintaining the minimum torque at the damper spindle.

The damper actuator running time is adapted to come closer to the needs of UL555 requirments.

The actuator is overload-proof, requires no limit switches and automatically stops when the end stop is reached.

Direct mounting

Simple direct mounting on the damper shaft with a clamp, protection against rotating with enclosed anti-rotation lock or rather at intended attachment points.

Manual override

The actuator can be operated only manually while the power supply is off. The supplied lever is to open and lock the damper position. The lock stays until the power supply is put on.

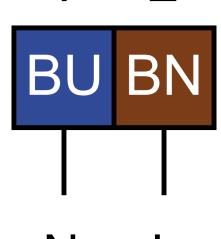
Signaling

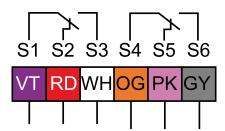
The two integrated auxiliary switches are activated at he fixed switching positions (> 5° and > 80°). The damper position can be checked by the mechanicel pointer.



Connector / Security Note

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Safety remarks

- Caution: power supply voltage!
- The device is not allowed to be used outside the specified field of application, especially in airplanes.
- It may only be installed by suitably trained personnel. Any legal regulations or regulations issued by authorities must be observed during assembly.
- The device may only be opened at the manufacturer's site.
- The device is not allowed to be disposed of as household refuse. All locally valid regulations and requirements must be observed.
- When calculating the required torque, the specifications supplied by the damper manufacturer's (crosssection, design, installation site), and the air flow conditions must be observed.
- The device is adapted and mounted to the fire and smoke damper by the damper manufacturer. For this reason, the device is only supplied direct to safety damper manufacturer. the manufacturer then bears full responsibility for the proper functioning of the damper.



Technical Drawing

