

SFA...05S (T) SERIES

SFA series Spring Return damper actuators are designed specifically for fire and smoke application. During normal operation, the actuator motorized the damper. In the event of fire emergency, the actuator springs back to its original position when there is power outage or trip by thermal sensor.

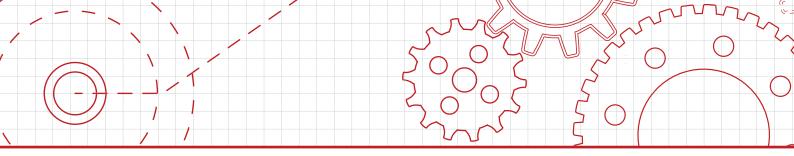


PRODUCT FEATURE

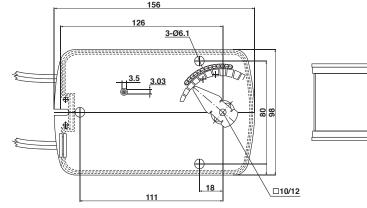
- Torque 5 Nm
- Damper size 1.0 m²
- Power supply AC/DC 24V and AC 230 V
- Shaft dimensions Form fit 12 mm square
- Adapter supplied for Form fit 8 or 10 mm square
- Selectable direction of rotation
- Actuator with 1 m cable connection
- 2 Fixed auxiliary switches (SPDT)
- Manual Over-ride by crank handle when required
- Thermal sensor option available
- Anti-rotation bracket provided for stability

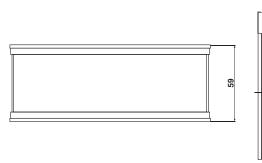
MODEL SELECTION TABLE

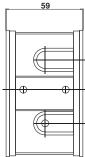
MODEL / TYPE	TORQUE	POWER SUPPLY	RUNNING TIME	AUXILIARY SWITCHES	THERMAL SENSOR
SFA 1-05S	5 Nm	AC/DC 24 V ± 10%	5070 sec (Spring Back <25 sec)	2 x SPDT (Fixed)	-
SFA 1-05ST	5 Nm	AC/DC 24 V ± 10%	5070 sec (Spring Back <25 sec)	2 x SPDT (Fixed)	Yes
SFA 2-05S	5 Nm	AC 230 V ± 10%	5070 sec (Spring Back <25 sec)	2 x SPDT (Fixed)	-
SFA 2-05ST	5 Nm	AC 230 V ± 10%	5070 sec (Spring Back <25 sec)	2 x SPDT (Fixed)	Yes



DIMENSION (mm)







TECHNICAL SPECIFICATION

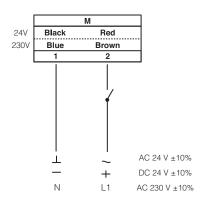
MODEL NUMBER	SFA 1-05S (T)	SFA 2-05S (T)	
TORQUE	5 Nm	5 Nm	
DAMPER SIZE	1.0 m ²	1.0 m ²	
SHAFT DIMENSION	Form fit 12 mm square*	Form fit 12 mm square*	
POWER SUPPLY	AC/DC 24 V ± 10%	AC 230 V ± 10%	
FREQUENCY	5060 Hz	5060 Hz	
CONTROL SIGNAL	2 point control	2 point control	
POWER CONSUMPTION			
• OPERATING	5.0 W	5.0 W	
END POSITION	3.5 W	3.5 W	
FOR WIRE SIZING	7.0 VA	7.0 VA	
ELECTRICAL CONNECTION	1 m Cable	1 m Cable	
AUXILIARY SWITCHES RATING	2 (1.5) A, AC 250 V	2 (1.5) A, AC 250 V	
PROTECTION CLASS	Class III	Class II 🗆	
ANGLE OF ROTATION	90° (95° mechanical)	90° (95° mechanical)	
THERMAL TEMPERATURE TRIP	> 72°C	> 72°C	
WEIGHT	1.8 Kg	1.9 Kg	
LIFE CYCLE	60,000 Rotation	60,000 Rotation	
SOUND LEVEL	40 dB	40 dB	
IP PROTECTION	IP54	IP54	
OPERATING TEMPERATURE	-30°50° as per IEC 721-3-3	-30°50° as per IEC 721-3-3	
NON-OPERATING TEMPERATURE	-30°+60° C / IEC 721-3-2	-30°+60° C / IEC 721-3-2	
AMBIENT HUMIDITY	5%95% rH non condensing / EN	5%95% rH non condensing / EN	
MAINTENANCE	Maintenance Free	Maintenance Free	
MODE OF OPERATION	Type I / EN 60730-1	Type I / EN 60730-1	
EMC	CE, UL 873 & ISO 9000 EN / EEC	CE, UL 873 & ISO 9000 EN / EEC	

*Note that shaft dimension has a tolerance offset of \pm 0.2mm.

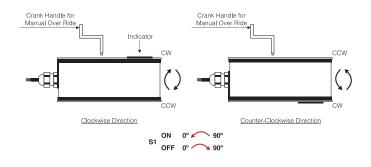
SFA SERIES FIRE & SMOKE DAMPER ACTUATOR 2 POINT SPRING RETURN CONTROL 5Nm



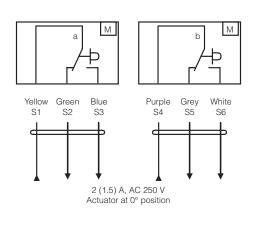
WIRING DIAGRAM SFA...05S (T) POWER SUPPLY AC/DC 24 V OR AC 230V



DIRECTION OF ROTATION SFA...05S (T)

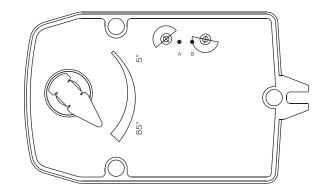


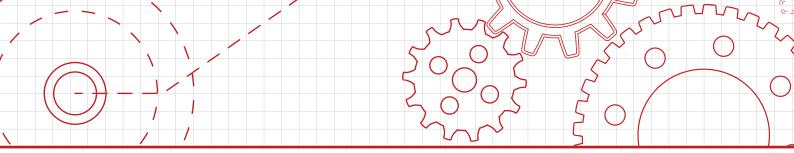
WIRING DIAGRAM SFA...05S (T) AUXILIARY SWITCHES



AUXILIARY SWITCHES SFA...05S (T)

Auxiliary are fixed at 5° for switch (a) and 85° for switch (b) Auxiliary switches are non adjustable.

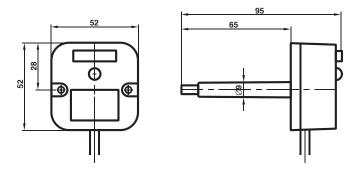




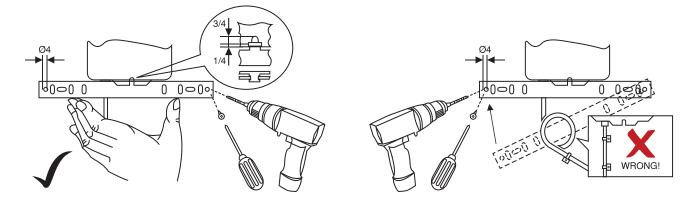
THERMAL SENSOR NTS72

Thermal Sensor NTS 72 consist of both Ambient (TS1) and Duct sensor (TS2).

- TS1 will trip open when the ambient temperature rise above 72°.
- TS2 will trip open when the duct temperature rise above 72°.



INSTALLATION / MOUNTING INSTRUCTION



IMPORTANT REMARK

For special requirement, consult your local Swisotec's representative.

This actuator includes electrical and electronic components and may not be disposed as household garbage. Please consider the local valid legislation.
AC / DC 24 V:
Connect via safety isolating transformer.
To isolate from the main power supply, the system must incorporate a device which disconnects the phase conductor (with at least a 3mm contact gap.)

The performance specifications are nominal and conform to acceptable industry standards. Swisotec shall not be liable for damages resulting from misapplication or misuse of its products.