

2 Point Spring Return Control 8 Nm



FA series Spring Return actuators are developed for general air damper application, rotary valve and other devices which require a fail-safe function. During normal operation, the actuator motorized the device. In the event of power outage, the actuator springs back to its original position.

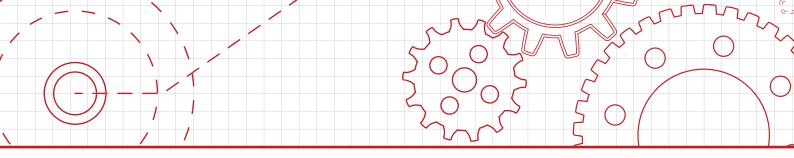


PRODUCT FEATURE

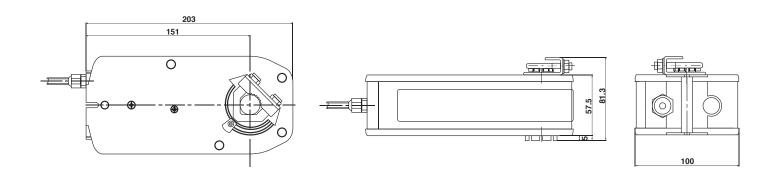
- Torque 8 Nm
- Damper size 1.5 m²
- Power supply AC/DC 24V and AC 230 V
- Shaft dimensions Ø 10...20 mm / □ 7...14 mm
- Minimum Shaft Length 40 mm
- Adjustable angle of rotation
- Selectable direction of rotation of reversing actuator
- Actuator with 1 m cable connection
- Optional 1 Fixed and 1 Adjustable SPDT auxiliary switches

MODEL SELECTION TABLE

MODEL / TYPE	TORQUE	POWER SUPPLY	RUNNING TIME	AUXILIARY SWITCHES
FA 1-08	8 Nm	AC/DC 24 V ± 10%	100130 sec (Spring Back <25 sec)	-
FA 1-08S	8 Nm	AC/DC 24 V ± 10%	100130 sec (Spring Back <25 sec)	2 x SPDT (Fixed & Adjustable)
FA 2-08	8 Nm	AC 230 V ± 10%	100130 sec (Spring Back <25 sec)	-
FA 2-08S	8 Nm	AC 230 V ± 10%	100130 sec (Spring Back <25 sec)	2 x SPDT (Fixed & Adjustable)



DIMENSION (mm)



TECHNICAL SPECIFICATION

MODEL NUMBER	FA 1-08 (S)	FA 2-08 (S)	
TORQUE	8 Nm	8 Nm	
DAMPER SIZE	1.5 m ²	1.5 m ²	
SHAFT DIMENSION	Ø 1020 mm / □ 714 mm	Ø 1020 mm / 🗆 714 mm	
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	7.0 W	8.0 W	
END POSITION	2.0 W	5.5 W	
FOR WIRE SIZING	8.0 VA	8.0 VA	
ELECTRICAL CONNECTION	1 m Cable	1 m Cable	
AUXILIARY SWITCHES RATING	3 (1.5) A, AC 250 V	3 (1.5) A, AC 250 V	
PROTECTION CLASS	Class III ⊕	Class II 🗆	
ANGLE OF ROTATION	-5+90° (mechanical)	-5+90° (mechanical)	
WEIGHT	2.2 Kg	2.2 Kg	
LIFE CYCLE	60,000 Rotation	60,000 Rotation	
SOUND LEVEL	45 dB	45 dB	
IP PROTECTION	IP54	IP54	
OPERATING TEMPERATURE	-20°50° as per IEC 721-3-3	-20°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 & ISO 9000 EN / EEC	CE & ISO 9000 EN / EEC	

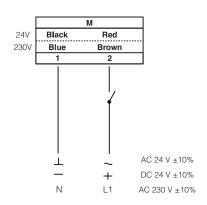


SPRING RETURN DAMPER ACTUATOR

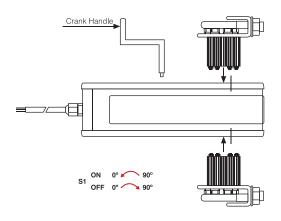
2 Point Spring Return Control

8 Nm

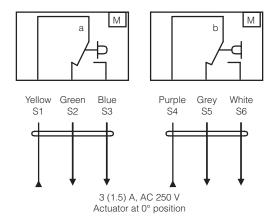
WIRING DIAGRAM FA...08 (S) POWER SUPPLY AC/DC 24 V / AC 230V



DIRECTION OF ROTATION FA...08 (S)



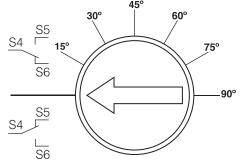
WIRING DIAGRAM FA...08 (S) AUXILIARY SWITCHES



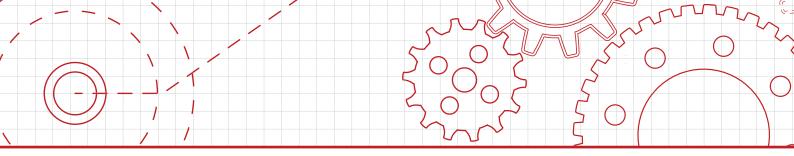
AUXILIARY SWITCH FA...08(S)

Switch a factory-set at 5°.

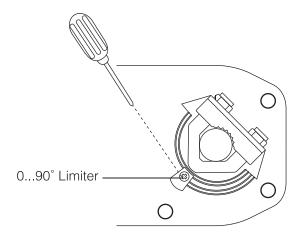
The auxiliary switch can be optimally adjusted between $0^{\circ}...90^{\circ}$.



Switch **a** factory set at 5° Switch **b** adjustable 0°...90°



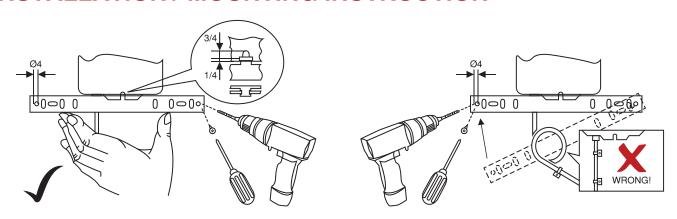
ANGLE OF ROTATING LIMITATING



Mechanical Limited Adjustment

- ① Loosen screw of the mechanical limiter plate.
- ② Move the limiter plate to the appropriate position.
- 3 Tighten the screw.

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.



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.