

S8081 Series Fast Running Damper Actuators

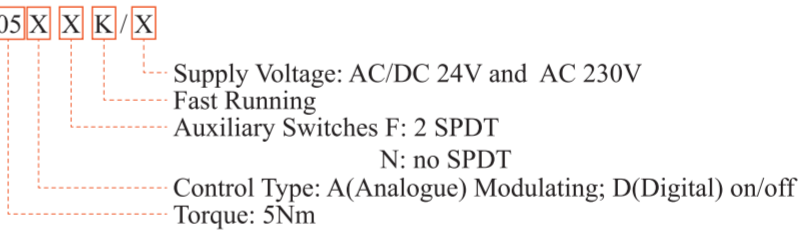
This damper actuator is designed for damper control in HVAC systems.

◆ Features


- Torque: 5Nm
- Nominal Voltage: AC/DC 24V and AC 230V
- Control Method: 2 point/3 point;
0(2)-10V or 0(4)-20mA Analogue

◆ Order Code

S8081-05 X X K / X



◆ S8081-05 Technical Specifications

Items	S8081-05DN(F)K/24V	S8081-05DN(F)K/230V	S8081-05AN(F)K/24V
Torque (Nm)	5Nm		
Stopping Torque (Nm)	>5Nm		
Damper Size (m ²)	1m ²		
Running Time (sec)	2.5s-3.5s		
Nominal Voltage (V)	AC/DC 24V; AC 230V 50/60Hz		
Supply Voltage Range	AC/DC 19.2-28.8V ; AC 85-265V		
Power Consumption (on)	15W		
Power Consumption (off)	2W		
Reactive Power (VA)	25		
Weight (Kg)	1Kg		
Control Signal	2 point/3 point		0(2)-10V or 0(4)-20mA
Rotation Angle	0~90°(Max 93°)		
Rotation Direction	L/R switch		
Positional Feedback	Non or 2 Auxiliary Switches		
Life Cycle	≥30000		
Sound Power Level	60dB		
Electrical Protection Class	II/III		
Ingress Protection	IP54		
Ambient Temperature	-30~+50°C		
Ambient Humidity	5~95% RH		
Storage Temperature	-40~+80°C		
Shaft Diameter	 12-26.7mm, pair with Shaft Block 3 for smaller shafts		
Accessories	1m cable		
Compliance	CE, UKCA, EAC, RoHS certificates		

S8081 Series Fast Running Damper Actuators

This damper actuator is designed for damper control in HVAC systems.

◆ Features

- Torque : 10Nm
- Nominal Voltage: AC/DC 24V and AC 230V
- Control Method: 0(2)-10V or 0(4)-20mA Analogue


◆ Order Code

S8081-10 X X K / X

- Supply Voltage: AC/DC 24V and AC 230V
- Fast Running
- Auxiliary Switches F: 2 SPDT
N: no SPDT
- Control type: A(Analogue) Modulating; D(Digital) on/off
- Torque: 10Nm



◆ S8081-10 Technical Specifications

Items	S8081-10DN(F)K/24V	S8081-10DN(F)K/230V	S8081-10AN(F)K/24V
Torque (Nm)	10Nm		
Stopping Torque (Nm)	> 10Nm		
Damper Size (m ²)	2m ²		
Running Time (sec)	4s-5s		
Nominal Voltage (V)	AC/DC 24V; AC 230V 50/60Hz		
Supply Voltage Range	AC/DC 19.2-28.8V; AC 85-265V		
Power Consumption (on)	15W		
Power Consumption (off)	2W		
Reactive Power (VA)	25		
Weight (Kg)	1Kg		
Control Signal	2 point/3 point		0(2)-10V or 0(4)-20mA
Rotation Angle	0~90°(Max 93°)		
Rotation Direction	L/R switch		
Positional Feedback	None or 2 Auxiliary Switches		
Life Cycle	≥30000		
Sound Power Level	55dB		
Electrical Protection Class	II/III		
Ingress Protection	IP54		
Ambient Temperature	-30~+50°C		
Ambient Humidity	5~95% RH		
Storage Temperature	-40~+80°C		
Shaft Diameter	 12-26.7mm, pair with Shaft Block 3 for smaller shafts		
Accessories	1m cable		
Compliance	CE, UKCA, EAC, RoHS certificates		

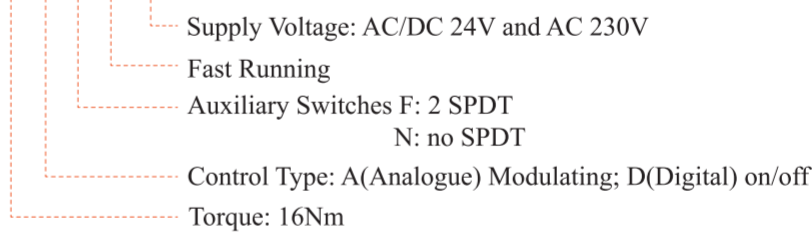
This damper actuator is designed for damper control in HVAC systems.

◆ Features


- Torque: 16 Nm
- Nominal Voltage: AC/DC 24V and AC 230V
- Control Method: 2 point/3 point;
0(2)-10V or 0(4)-20mA Analogue

◆ Order Code

S8081-16 X X K / X

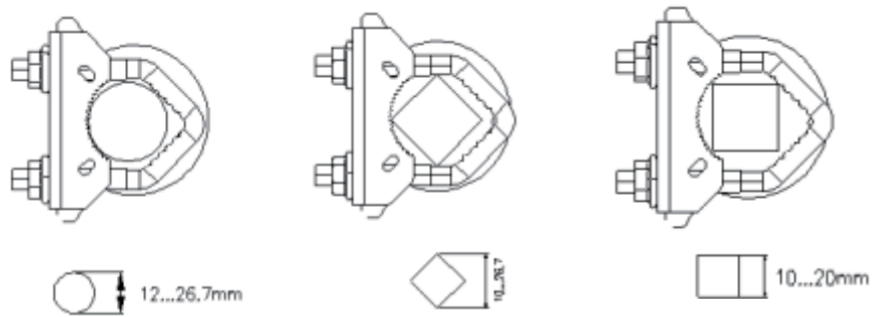


◆ S8081-16 Technical Specifications



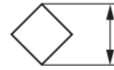

Items	S8081-16DN(F)K/24V	S8081-16DN(F)K/230V	S8081-16AN(F)K/24V
Torque (Nm)	16Nm		
Stopping Torque (Nm)	> 16Nm		
Damper Size (m ²)	4m ²		
Running Time (sec)	7s-8s		
Nominal Voltage (V)	AC/DC 24V; AC 230V 50/60Hz		
Supply Voltage Range	AC/DC 19.2-28.8V; AC 85-265V		
Power Consumption (on)	15W		
Power Consumption (off)	2W		
Reactive Power (VA)	25		
Weight (Kg)	1Kg		
Control Signal	2 point/3 point		0(2)-10V or 0(4)-20mA
Rotation Angle	0~90°(Max 93°)		
Rotation Direction	L/R switch		
Positional Feedback	None or 2 Auxiliary Switches		
Life Cycle	≥30000		
Sound Power Level	55dB		
Electrical Protection Class	II/III		
Ingress Protection	IP54		
Ambient Temperature	-30~+50°C		
Ambient Humidity	5~95% RH		
Storage Temperature	-40~+80°C		
Shaft Diameter	 12-26.7mm, pair with Shaft Block 3 for smaller shafts		
Accessories	1m cable		
Compliance	CE, UKCA, EAC, RoHS certificates		

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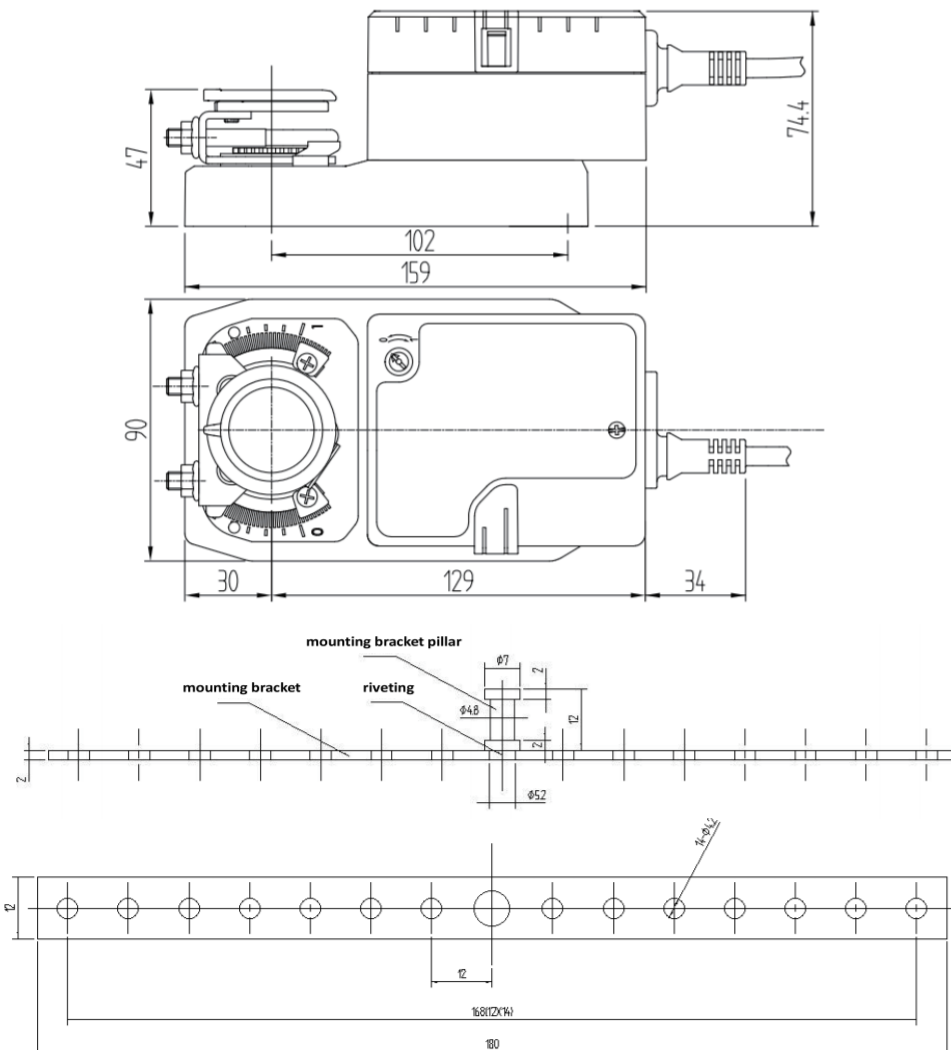
◆ S8081 Shaft Dimensions



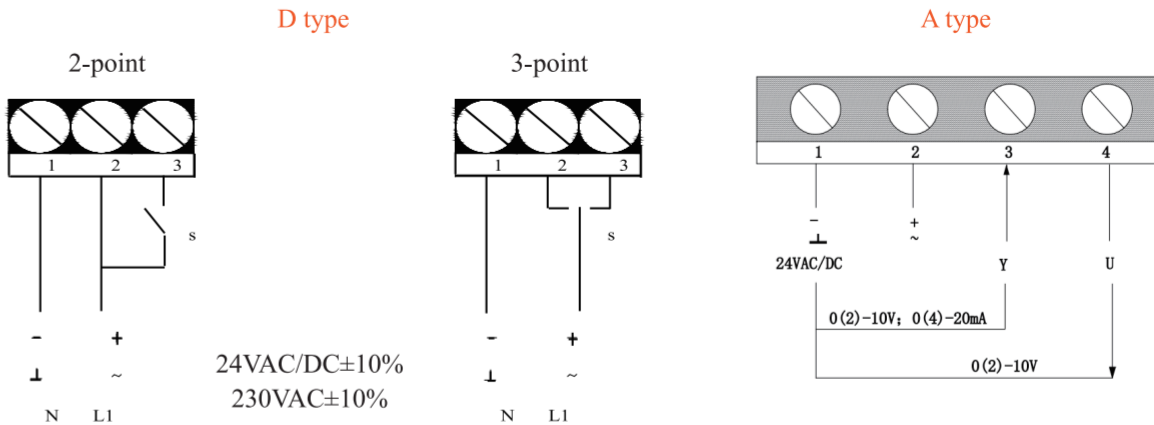
Unit: mm

Shaft	Length			
	≥42	12.....26.7	≥10	≤26.7

◆ S8081 Dimensions: unit (mm)

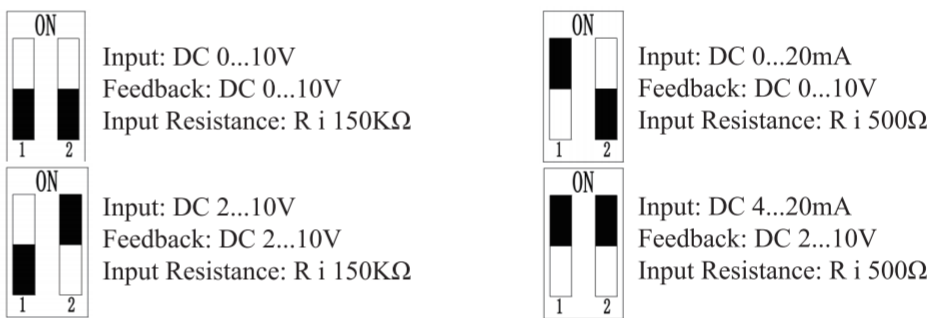


◆ S8081 Wiring Diagrams

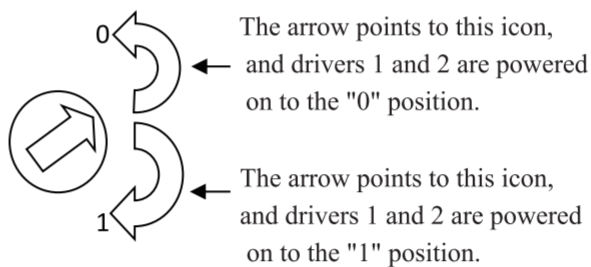


◆ A Type Control Signal and Input Impedance Selections

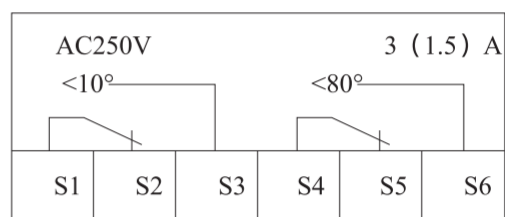
According to the needs of the site, the position of the SW1 DIP switch in the circuit board can be adjusted to achieve the conversion of control signal and feedback signal, see the figure below for details.



◆ Direction of Rotation



◆ Auxiliary Switch Diagram



1. The installation must be carried out by personnel who have received relevant training or relevant work experience. During the installation process, be careful not to operate with power on, and install the actuator according to the regulations.
2. The device contains electrical and electronic accessories, so it is prohibited to dispose of it as ordinary garbage after the product is scrapped. The disposal method should comply with the regulations and requirements of the local government.