



FIRBESON

F30F Series Fire Smoke Damper Actuator

The damper actuator specially designed for the Fire & Smoke damper applications



Torque

3.5Nm, 5Nm, 10Nm, 15Nm, 20Nm

Supply Voltage & Control

AC/DC19.2-28.8V or AC85-265V, on/off

AC/DC19.2-28.8V, 0-10V modulating

Order code

F30 F - X X X - X

Auxiliary Function: S for Auxiliary Switches

ST for Auxiliary Switches with
Thermal Sensor

Nominal Voltage : 24 for AC/DC 19.2-28.8V ;

230 for AC 85-265V

Control Signal: D for 2 point; M for Modulating

Torque : 3.5Nm, 5Nm, 10Nm, 20Nm

F for Fire/Smoke Damper Actuator

Labeling of Series

3.5Nm Product Table

Model	Torque	Running Time	Nominal Voltage	Auxiliary Switches
F30F-3.5D24-S	3.5Nm	motor < 70s ; spring returning < 30s	AC/DC 24V or AC 230V	2 SPDT
F30F-3.5D230-S				
F30F-3.5M24-S				
F30F-3.5D24-ST				2 SPDT & Thermal sensor
F30F-3.5D230-ST				

F30F-3.5-S Specifications

Items	F30F-3.5D24-S F30F-3.5D24-ST	F30F-3.5D230-S F30F-3.5D230-ST	F30F-3.5M24-S
Electrical Parameters			
Nominal Voltage （V）	AC/DC 24V 50/60Hz	AC 230V 50/60Hz	AC/DC 24V 50/60Hz
Nominal Voltage Range （V）	AC/DC 19.2-28.8V	AC 85-265V	AC/DC 19.2-28.8V
Power Consumption （on）	2.5W (in operation)		
Power Consumption （off）	1.6W (Holding)		
Cable	on/off: 1m cable 2*0.75mm ² ; modulating: 1m cable 4*0.5mm ² ; Signal feedback: 1m cable 6*0.5mm ²		
Technical Parameters			
Torque	3.5Nm		
Damper Area （m ² ）	0.8		
Running Time	motor < 70s ; spring returning < 30s		
Control Signal	2 point		0-10V
Angle of Rotation	0~90° (Max 93°)		
Direction of Rotation	L/R switches		
Positional Feedback	2 SPDT		
Life Cycle	≥ 70000		
Noise Level	50dB; 62dB		
Operating Condition			
Protection Class	II/III		
Degree of Protection	IP54		
Ambient Temperature	-30~+55°C, Max safe operating temp: 75°C		
Ambient Humidity	5~95%RH		
Non-operating Temperature	-40~+80°C		
Dimensions & Weight			
Spindle Diameter	10*10/12*12mm		
Weight （Kg）	1.2		
Certificates	CE, UKCA, UL, RoHS		

5Nm Product Table

Model	Torque	Running Time	Nominal Voltage	Auxiliary Switches
F30F-5D24-S	5Nm	motor < 70s ; spring returning < 20s	AC/DC 24V or AC 230V	2 SPDT
F30F-5D230-S				
F30F-5M24-S		motor < 120s ; spring returning < 20s		
F30F-5D24-ST		motor < 70s ; spring returning < 20s		2 SPDT & Thermal sensor
F30F-5D230-ST				

F30F-5-S Specifications

Items	F30F-5D24-S F30F-5D24-ST	F30F-5D230-S F30F-5D230-ST	F30F-5M24-S
Electrical Parameters			
Nominal Voltage （V）	AC/DC 24V 50/60Hz	AC 230V 50/60Hz	AC/DC 24V 50/60Hz
Nominal Voltage Range （V）	AC/DC19.2-28.8V	AC 85-265V	AC/DC19.2-28.8V
Power Consumption （on）	5W (in operation)		
Power Consumption （off）	2.5W (Holding)		
Cable	on/off: 1m cable 2*0.75mm ² ; modulating: 1m cable 4*0.5mm ² ; Signal feedback: 1m cable 6*0.5mm ²		
Technical Parameters			
Torque	5Nm		
Damper Area （m ² ）	1		
Running Time	motor<70s ; spring returning<20s		motor<120s; spring returning<20s
Control Signal	2 point		0-10V
Angle of Rotation	0~90° (Max 93°)		
Direction of Rotation	L/R switches		
Positional Feedback	2 SPDT		1 SPDT
Life Cycle	≥70000		
Noise Level	50dB; 62dB		
Operating Condition			
Protection Class	II/III		
Degree of Protection	IP54		
Ambient Temperature	-30~+55°C, Max safe operating temp: 75°C		
Ambient Humidity	5~95%RH		
Non-operating Temperature	-40~+80°C		
Dimensions & Weight			
Spindle Diameter	10*10/12*12mm		
Weight （Kg）	1.6		
Certificates	CE, UKCA, UL, RoHS		

10Nm Product Table

Model	Torque	Running Time	Nominal Voltage	Auxiliary Switches
F30F-10D24-S	10Nm	motor < 100s ; spring returning < 30s (Modulating: motor < 120s ; spring returning < 30s)	AC/DC 24V or AC 230V	2 SPDT
F30F-10D230-S				
F30F-10M24-S				
F30F-10D24-ST				2 SPDT & Thermal sensor
F30F-10D230-ST				

F30F-10-S Specifications

Items	F30F-10D24-S F30F-10D24-ST	F30F-10D230-S F30F-10D230-ST	F30F-10M24-S
Electrical Parameters			
Nominal Voltage （V）	AC/DC 24V 50/60Hz	AC 230V 50/60Hz	AC/DC 24V 50/60Hz
Nominal Voltage Range （V）	AC 19.2-28.8V DC 21.6-28.8V	AC 85-265V	AC/DC19.2-28.8V
Power Consumption （on）	5W (in operation)		
Power Consumption （off）	2.5W (Holding)		
Cable	on/off: 1m cable 2*0.75mm ² ; modulating: 1m cable 4*0.5mm ² ; Signal feedback: 1m cable 6*0.5mm ²		
Technical Parameters			
Torque	10Nm		
Damper Area （m ² ）	2		
Running Time	motor < 100s ; spring returning < 30s		motor<120s; spring returning<30s
Control Signal	2 point		0-10V
Angle of Rotation	0~90° (Max 93°)		
Direction of Rotation	L/R switches		
Positional Feedback	2 SPDT		
Life Cycle	≥ 70000		
Noise Level	50dB; 62dB		
Operating Condition			
Protection Class	II/III		
Degree of Protection	IP54		
Ambient Temperature	-30~+55℃,Max safe operating temp: 75℃		
Ambient Humidity	5~95%RH		
Non-operating Temperature	-40~+80℃		
Dimensions & Weight			
Spindle Diameter	10*10/12*12mm		
Weight （Kg）	2.6		
Certificates	CE, UKCA, UL, RoHS		

15Nm Product Table

Model	Torque	Running Time	Nominal Voltage	Auxiliary Switches
F30F-15D24-S	15Nm	motor < 130s ; spring returning < 30s	AC/DC 24V or AC 230V	2 SPDT
F30F-15D230-S				
F30F-15M24-S				
F30F-15D24-ST				2 SPDT & Thermal sensor
F30F-15D230-ST				

F30F-15-S Specifications

Items	F30F-15D24-S F30F-15D24-ST	F30F-15D230-S F30F-15D230-ST	F30F-15M24-S
Electrical Parameters			
Nominal Voltage （V）	AC/DC 24V 50/60Hz	AC 230V 50/60Hz	AC/DC 24V 50/60Hz
Nominal Voltage Range （V）	AC/DC 19.2-28.8V	AC 85-265V	AC/DC 19.2-28.8V
Power Consumption （on）	6W (in operation)		
Power Consumption （off）	2.5W (Holding)		
Cable	on/off: 1m cable 2*0.75mm ² ; modulating: 1m cable 4*0.5mm ² ; Signal feedback: 1m cable 6*0.5mm ²		
Technical Parameters			
Torque	15Nm		
Damper Area （m ² ）	3		
Running Time	motor < 130s ; spring returning < 30s		
Control Signal	2 point		0-10V
Angle of Rotation	0~90° (Max 93°)		
Direction of Rotation	L/R switches		
Positional Feedback	2 SPDT		
Life Cycle	≥70000		
Noise Level	50dB; 62dB		
Operating Condition			
Protection Class	II/III		
Degree of Protection	IP54		
Ambient Temperature	-30~+55℃,Max safe operating temp: 75℃		
Ambient Humidity	5~95%RH		
Non-operating Temperature	-40~+80℃		
Dimensions & Weight			
Spindle Diameter	10*10/12*12mm		
Weight （Kg）	2.6		
Certificates	CE, UKCA, UL, RoHS		

20Nm Product Table

Model	Torque	Running Time	Nominal Voltage	Auxiliary Switches
F30F-20D24-S	20Nm	motor < 130s ; spring returning < 30s	AC/DC 24V or AC 230V	2 SPDT
F30F-20D230-S				
F30F-20M24-S				
F30F-20D24-ST				2 SPDT & Thermal sensor
F30F-20D230-ST				

F30F-20-S Specifications

Items	F30F-20D24-S F30F-20D24-ST	F30F-20D230-S F30F-20D230-ST	F30F-20M24-S
Electrical Parameters			
Nominal Voltage （V）	AC/DC 24V 50/60Hz	AC 230V 50/60Hz	AC/DC 24V 50/60Hz
Nominal Voltage Range （V）	AC/DC19.2-28.8V	AC 85-265V	AC/DC19.2-28.8V
Power Consumption （on）	7W (in operation)		
Power Consumption （off）	2.5W (Holding)		
Cable	on/off: 1m cable 2*0.75mm ² ; modulating: 1m cable 4*0.5mm ² ; Signal feedback: 1m cable 6*0.5mm ²		
Technical Parameters			
Torque	20Nm		
Damper Area （m ² ）	4		
Running Time	motor < 130s ; spring returning < 30s		
Control Signal	2 point		0-10V
Angle of Rotation	0~90° (Max 93°)		
Direction of Rotation	L/R switches		
Positional Feedback	2 SPDT		
Life Cycle	≥ 70000		
Noise Level	50dB; 62dB		
Operating Condition			
Protection Class	II/III		
Degree of Protection	IP54		
Ambient Temperature	-30~+55℃,Max safe operating temp: 75℃		
Ambient Humidity	5~95%RH		
Non-operating Temperature	-40~+80℃		
Dimensions & Weight			
Spindle Diameter	10*10/12*12mm		
Weight （Kg）	2.6		
Certificates	CE, UKCA, UL, RoHS		