

EA700 Series Low Noise Damper Actuators



Designed for damper control within HVAC systems.

Torque:

2Nm, 5Nm, 10Nm

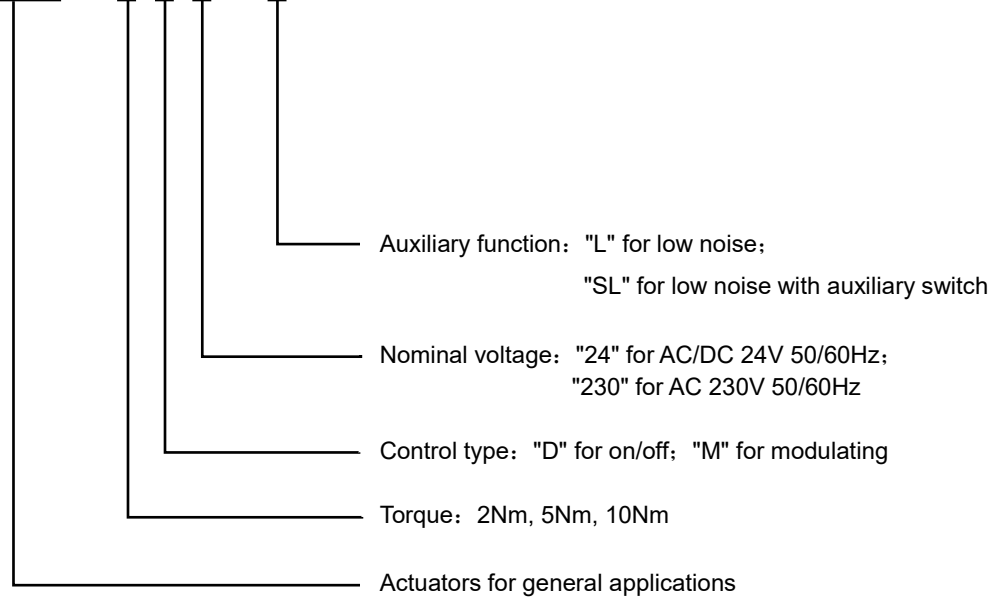
Nominal Voltage and Control Type:

AC/DC 24V or AC 230V 50/60Hz, 2-point/3-point, D

AC/DC 24V 50/60Hz, 0(2)-10V or 0(4)-20mA, M

Product Code Description:

EA700 - X X X - X



EA700 Series Low Noise Damper Actuators

2Nm Model Selection

Model	Torque	Running Time	Nominal Voltage	Auxiliary Function
EA700-2D24-L	2Nm	75s	AC/DC 24V	None
EA700-2D230-L			AC 230V	
EA700-2M24-L			AC/DC 24V	
EA700-2D24-SL			AC/DC 24V	Auxiliary Switches
EA700-2D230-SL			AC 230V	
EA700-2M24-SL			AC/DC 24V	



Technical Specifications

Model	EA700-2D24-L	EA700-2D230-L	EA700-2M24-L
	EA700-2D24-SL	EA700-2D230-SL	EA700-2M24-SL

Electrical Parameters

Nominal Voltage		AC/DC 24V 50/60Hz	AC 230V 50/60Hz	AC/DC 24V 50/60Hz
Voltage Range		AC/DC 19.2-28.8V	AC 85-265V	AC/DC 19.2-28.8V
Power	running	1.5W		
Consumption	holding	0.7W		
Cable Specification		On/Off Type: 1m cable 3*0.75mm²; Modulating Type: 1m cable 4*0.5mm²; Feedback Signal: 1m cable 6*0.5mm²		

General Parameters

Torque	2Nm	
Damper Size	0.5m²	
Running Time	75s	
Control Type	2-point/3-point	0(2)-10V or 0(4)-20mA
Rotation Angle	0~90°（93°max.）	
Rotation Direction	L/R switch	
Position Feedback	available with 2 auxiliary switches	
Life Cycle	≥70000	
Noise Level	35dB	

Working Environment

Protection Class	II / III		
Protection Level	IP54		
Ambient Temperature	-30~+50°C		
Ambient Humidity	5~95%RH		
Storage Temperature	-40~+80°C		

Dimension/Weight/Other

Shaft		8-18mm
Weight	0.5Kg	
Certificate	CE、UKCA、RoHS	

EA700 Series Low Noise Damper Actuators

5Nm Model Selection

Model	Torque	Running Time	Nominal Voltage	Auxiliary Function
EA700-5D24-L	5Nm	150s	AC/DC 24V	None
EA700-5D230-L			AC 230V	
EA700-5M24-L			AC/DC 24V	
EA700-5D24-SL			AC/DC 24V	Auxiliary Switches
EA700-5D230-SL			AC 230V	
EA700-5M24-SL			AC/DC 24V	



Technical Specifications

Model	EA700-5D24-L	EA700-5D230-L	EA700-5M24-L
	EA700-5D24-SL	EA700-5D230-SL	EA700-5M24-SL

Electrical Parameters

Nominal Voltage		AC/DC 24V 50/60Hz	AC 230V 50/60Hz	AC/DC 24V 50/60Hz
Voltage Range		AC/DC19.2-28.8V	AC 85-265V	AC/DC19.2-28.8V
Power	running	1.5W		
Consumption	holding	0.7W		
Cable Specification		On/Off Type: 1m cable 3*0.75mm²; Modulating Type: 1m cable 4*0.5mm²; Feedback Signal: 1m cable 6*0.5mm²		

General Parameters

Torque	5Nm	
Damper Size	1m²	
Running Time	150s	
Control Type	2-point/3-point	0(2)-10V or 0(4)-20mA
Rotation Angle	0~90°（93°max.）	
Rotation Direction	L/R switch	
Position Feedback	available with 2 auxiliary switches	
Life Cycle	≥70000	
Noise Level	35dB	

Working Environment

Protection Class	II /III		
Protection Level	IP54		
Ambient Temperature	-30~+50°C		
Ambient Humidity	5~95%RH		
Storage Temperature	-40~+80°C		

Dimension/Weight/Other

Shaft		8-18mm
Weight	0.5Kg	
Certificate	CE、UKCA、RoHS	

EA700 Series Low Noise Damper Actuators

10Nm Model Selection

Model	Torque	Running Time	Nominal Voltage	Auxiliary Function
EA700-10D24-L	10Nm	150s	AC/DC 24V	None
EA700-10D230-L			AC 230V	
EA700-10M24-L			AC/DC 24V	
EA700-10D24-SL			AC/DC 24V	Auxiliary Switches
EA700-10D230-SL			AC 230V	
EA700-10M24-SL			AC/DC 24V	



Technical Specifications

Model	EA700-10D24-L	EA700-10D230-L	EA700-10M24-L
	EA700-10D24-SL	EA700-10D230-SL	EA700-10M24-SL

Electrical Parameters

Nominal Voltage		AC/DC 24V 50/60Hz	AC 230V 50/60Hz	AC/DC 24V 50/60Hz
Voltage Range		AC/DC 19.2-28.8V	AC 85-265V	AC/DC 19.2-28.8V
Power	running	2.5W	3.5W	2.5W
Consumption	holding	0.7W	1W	0.7W
Cable Specification		On/Off Type: 1m cable 3*0.75mm ² ; Modulating Type: 1m cable 4*0.5mm ² ; Feedback Signal: 1m cable 6*0.5mm ²		

General Parameters

Torque	10Nm	
Damper Size	2m ²	
Running Time	150s	
Control Type	2-point/3-point	0(2)-10V or 0(4)-20mA
Rotation Angle	0~90°（93°max.）	
Rotation Direction	L/R switch	
Position Feedback	available with 2 auxiliary switches	
Life Cycle	≥70000	
Noise Level	35dB	

Working Environment

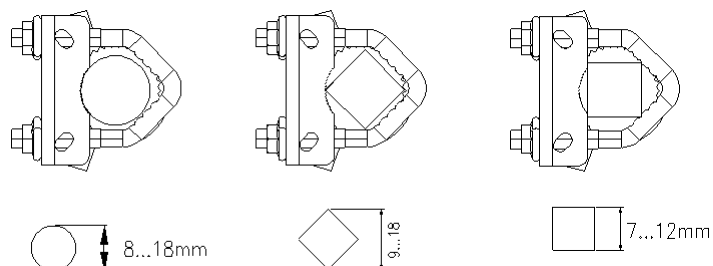
Protection Class	II / III
Protection Level	IP54
Ambient Temperature	-30~+50°C
Ambient Humidity	5~95%RH
Storage Temperature	-40~+80°C

Dimension/Weight/Other

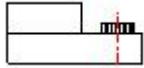
Shaft	 12-26.7mm; If the size of the damper shaft is small, use shaft spacer 3
Weight	0.9Kg
Certificate	CE、UKCA、RoHS

EA700 Series Low Noise Damper Actuators

EA700-2/5 Shaft Dimensions



Unit: mm

Throttle Axis	Length			
	≥ 40	8...18	≥ 7	≤ 18

EA700-2/5 Shape and Mounting Dimensions (mm)

EA700-2/5D24-L

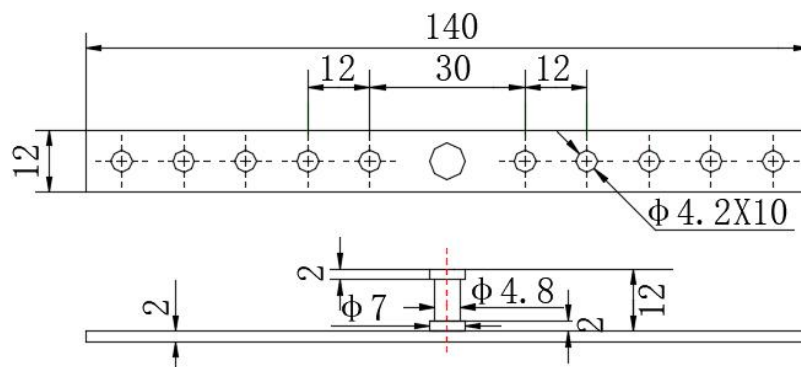
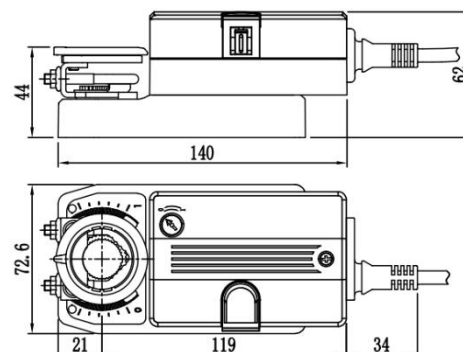
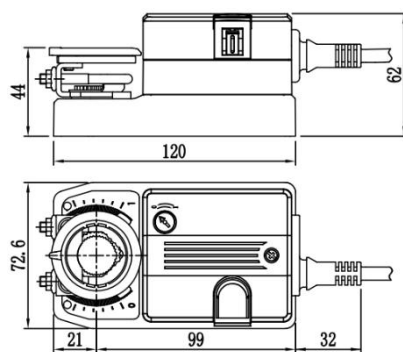
EA700-2/5M24-SL

EA700-2/5D230-SL

EA700-2/5M24-L

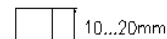
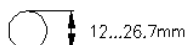
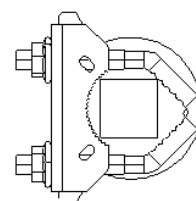
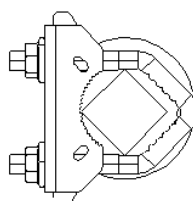
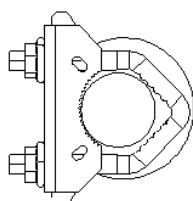
EA700-2/5D24-SL

EA700-2/5D230-L

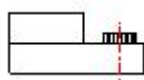


EA700 Series Low Noise Damper Actuators

EA700-10 Shaft Dimensions



Unit: mm

Throttle Axis	Length			
	≥ 42	12.....26.7	≥ 10	≤ 26.7

EA700-10 Shape and Mounting Dimensions (mm)

EA700-10D24-L

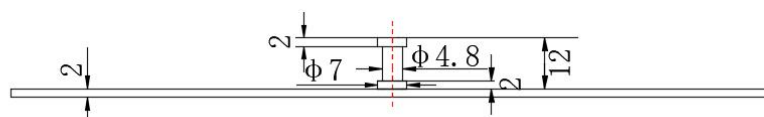
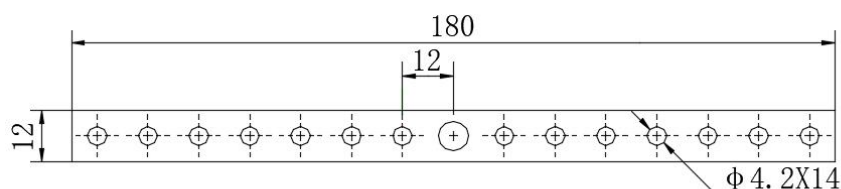
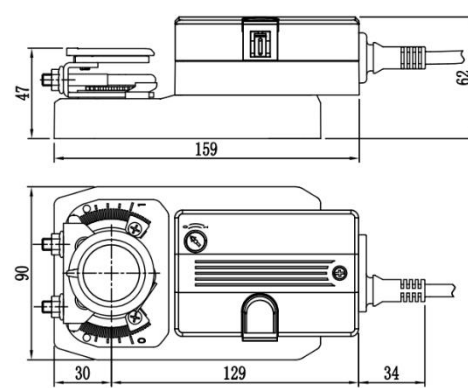
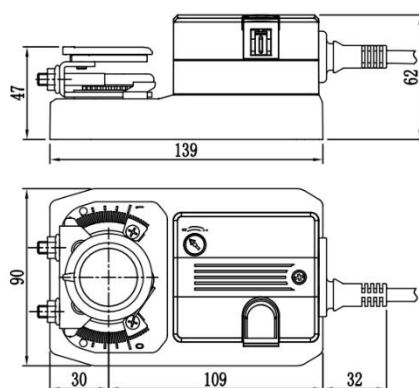
EA700-10M24-L

EA700-10M24-SL

EA700-10D24-SL

EA700-10D230-SL

EA700-10D230-L

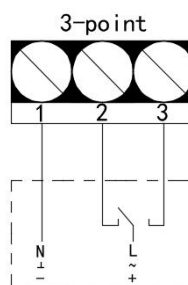
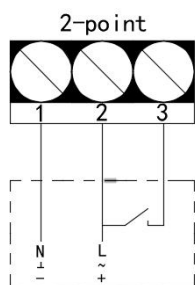
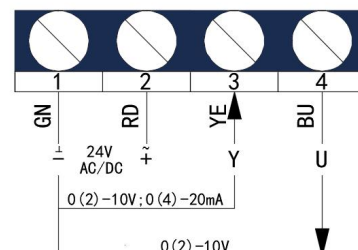


EA700 Series Damper Actuators Installation Diagram

Wiring Diagram

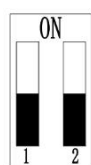
ON/OFF

MODULATING


AC/DC 19.2-28.8V
AC 85-265V


Control signal and Input resistance

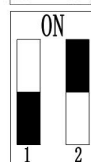
According to on-site needs, the position of the SW1 dial switch in the circuit board can be adjusted to achieve the conversion of control signals and feedback signals, as shown in the following figure.



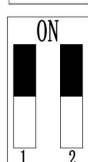
Input signal: DC 0...10V
Feedback: DC 0...10V
Input resistance: Ri 150K Ω



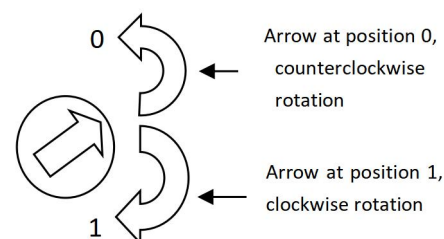
Input signal: DC 0...20mA
Feedback: DC 0...10V
Input resistance: Ri 500 Ω



Input signal: DC 2...10V
Feedback: DC 2...10V
Input resistance: Ri 150K Ω



Input signal: DC 4...20mA
Feedback: DC 2...10V
Input resistance: Ri 500 Ω



Auxiliary Switch Description

