

EA700 Series Standard Damper Actuators

Designed for damper control within HVAC systems.



Torque:

2Nm, 5Nm, 10Nm, 20Nm, 30Nm, 40Nm

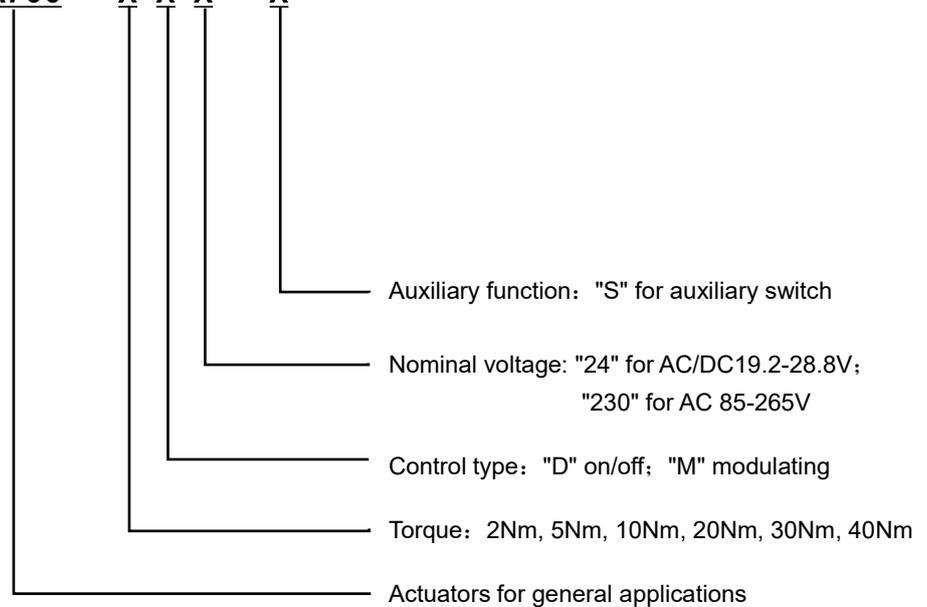
Nominal Voltage and Control Type:

AC/DC19.2-28.8V or AC85-265V, 2-point/3-point, D

AC/DC19.2-28.8V, 0(2)-10V or 0(4)-20mA, M

Product Code Description:

EA700 - X X X - X



EA700 Series Standard Damper Actuators

2Nm Model Selection Chart

Model	Torque	Running Time	Nominal Voltage	Auxiliary Function
EA700-2D24	2Nm	35s	AC/DC 24V	None
EA700-2D230			AC 230V	
EA700-2M24			AC/DC 24V	
EA700-2D24-S			AC/DC 24V	Auxiliary Switches
EA700-2D230-S			AC 230V	
EA700-2M24-S			AC/DC 24V	



Technical Parameters

Model	EA700-2D24	EA700-2D230	EA700-2M24
	EA700-2D24-S	EA700-2D230-S	EA700-2M24-S

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*0.75mm ² ; Modulating Type: 1m cable 4*0.5mm ² ; Feedback Signal: 1m cable 6*0.5mm ²		

General Parameters

Torque	2Nm		
Damper Size	0.5m ²		
Running Time	35s		
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	45dB		

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、UL、UKCA、RoHS	

EA700 Series Standard Damper Actuators

5Nm Model Selection Chart

Model	Torque	Running Time	Nominal Voltage	Auxiliary Function
EA700-5D24	5Nm	45s	AC/DC 24V	None
EA700-5D230			AC 230V	
EA700-5M24			AC/DC 24V	
EA700-5D24-S			AC/DC 24V	Auxiliary Switches
EA700-5D230-S			AC 230V	
EA700-5M24-S			AC/DC 24V	



Technical Parameters

Model	EA700-5D24	EA700-5D230	EA700-5M24
	EA700-5D24-S	EA700-5D230-S	EA700-5M24-S

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*0.75mm ² ; Modulating Type: 1m cable 4*0.5mm ² ; Feedback Signal: 1m cable 6*0.5mm ²		

General Parameters

Torque	5Nm		
Damper Size	1m ²		
Running Time	45s		
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	45dB		

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、UL、UKCA、RoHS	

EA700 Series Standard Damper Actuators

10Nm Model Selection Chart

Model	Torque	Running Time	Nominal Voltage	Auxiliary Function
EA700-10D24	10Nm	60s	AC/DC 24V	None
EA700-10D230			AC 230V	
EA700-10M24			AC/DC 24V	
EA700-10D24-S			AC/DC 24V	Auxiliary Switches
EA700-10D230-S			AC 230V	
EA700-10M24-S			AC/DC 24V	



Technical Parameters

Model	EA700-10D24	EA700-10D230	EA700-10M24
	EA700-10D24-S	EA700-10D230-S	EA700-10M24-S

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 Consumption	running	2.5W	3.5W	2.5W
	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	60s		
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	45dB		

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 the shaft spacer 3		
Weight	0.9Kg		
Certificate	CE、UL、UKCA、RoHS		

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20Nm Model Selection Chart

Model	Torque	Running Time	Nominal Voltage	Auxiliary Function
EA700-20D24	20Nm	75s	AC/DC 24V	None
EA700-20D230			AC 230V	
EA700-20M24			AC/DC 24V	
EA700-20D24-S			AC/DC 24V	Auxiliary Switches
EA700-20D230-S			AC 230V	
EA700-20M24-S			AC/DC 24V	



Technical Parameters

Model	EA700-20D24	EA700-20D230	EA700-20M24	
	EA700-20D24-S	EA700-20D230-S	EA700-20M24-S	
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	20Nm			
Damper Size	4m ²			
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	45dB			
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 (Kg)	0.9			
Certificate	CE、UL、UKCA、RoHS			

EA700 Series Standard Damper Actuators

30Nm Model Selection Chart



Model	Torque	Running Time	Nominal Voltage	Auxiliary Function
EA700-30D24	30Nm	75s	AC/DC 24V	None
EA700-30D230			AC 230V	
EA700-30M24			AC/DC 24V	
EA700-30D24-S			AC/DC 24V	Auxiliary Switches
EA700-30D230-S			AC 230V	
EA700-30M24-S			AC/DC 24V	

Technical Parameters

Model	EA700-30D24	EA700-30D230	EA700-30M24	
	EA700-30D24-S	EA700-30D230-S	EA700-30M24-S	
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	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	30Nm			
Damper Size	6m ²			
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	45dB			
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 6			
Weight	1.4Kg			
Certificate	CE、UL、UKCA、RoHS			

EA700 Series Standard Damper Actuators

40Nm Model Selection Chart



Model	Torque	Running Time	Nominal Voltage	Auxiliary Function
EA700-40D24	40Nm	100s	AC/DC 24V	None
EA700-40D230			AC 230V	
EA700-40M24			AC/DC 24V	
EA700-40D24-S			AC/DC 24V	Auxiliary Switches
EA700-40D230-S			AC 230V	
EA700-40M24-S			AC/DC 24V	

Technical Parameters

Model	EA700-40D24	EA700-40D230	EA700-40M24
	EA700-40D24-S	EA700-40D230-S	EA700-40M24-S

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	5W	
Consumption	holding	0.7W	1W
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	40Nm		
Damper Size	8m ²		
Running Time	100s		
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	45dB		

Working Environment

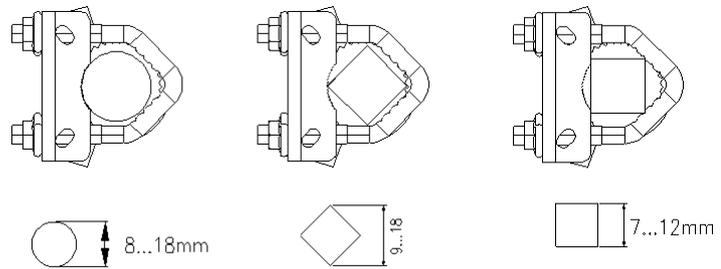
Protection Class	II /III		
Protection Level	IP54		
Ambient Temperature	-30~+50°C		
Ambient Humidity	5~95%RH		
Storage Temperature	-40~+80°C		

Dimension/Weight/Other

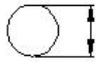
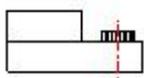
Shaft	 12-26.7mm; If the size of the damper shaft is small, use shaft spacer 6		
Weight	1.4Kg		
Certificate	CE、UL、UKCA、RoHS		

EA700 Series Standard 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

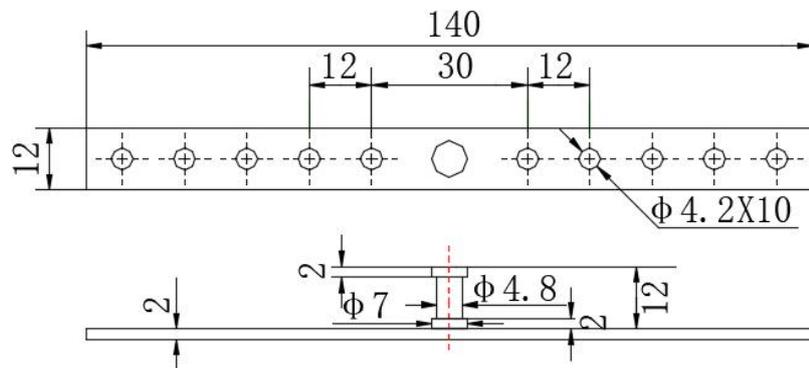
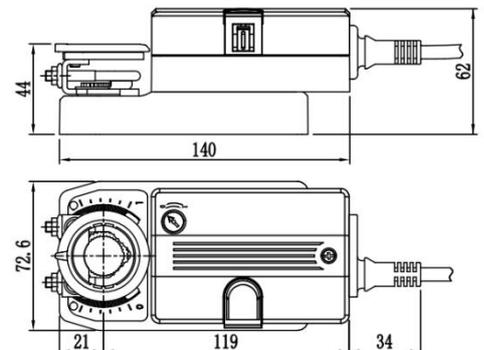
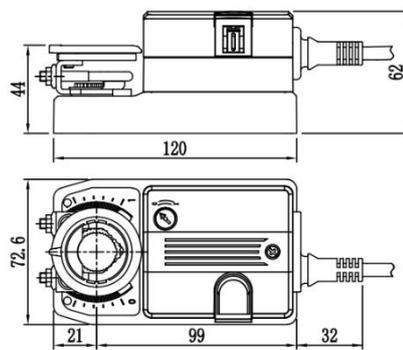
EA700-2/5M24

EA700-2/5M24-S

EA700-2/5D24-S

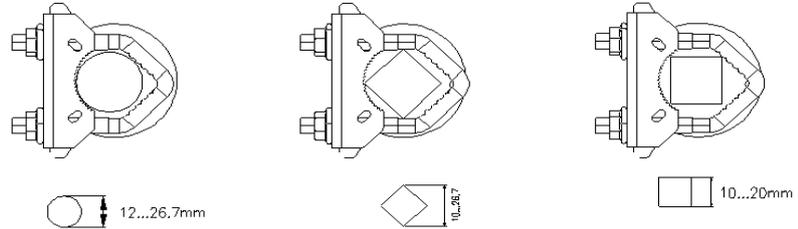
EA700-2/5D230-S

EA700-2/5D230

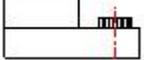


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EA700-10/20 Shaft Dimensions



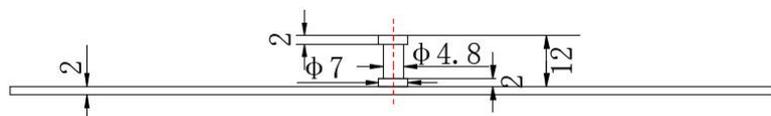
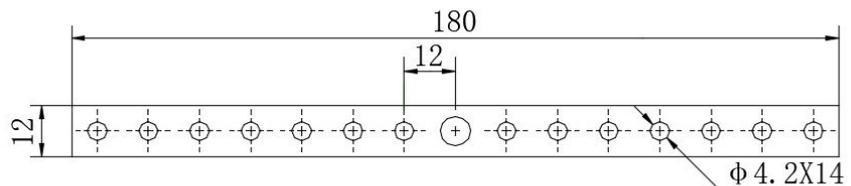
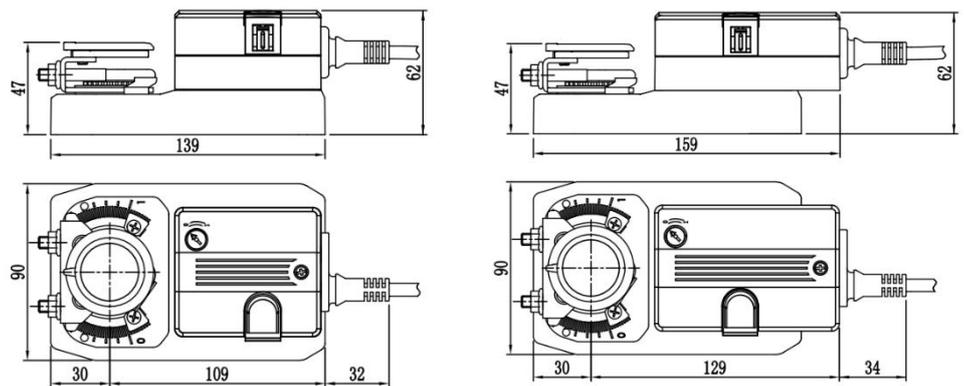
Unit: mm

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

EA700-10/20 Shape and Mounting Dimensions (mm)

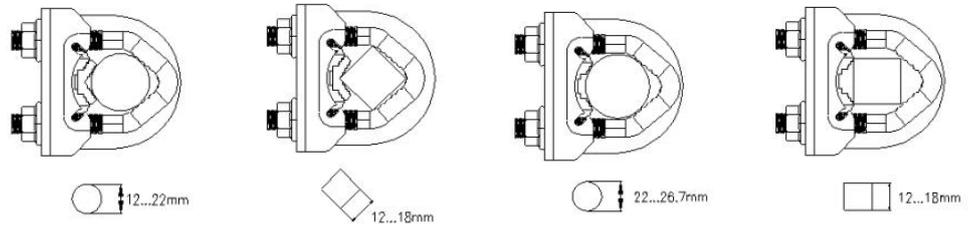
EA700-10/20D24
EA700-10/20M24

EA700-10/20M24-S EA700-10/20D230-S
EA700-10/20D24-S EA700-10/20D230

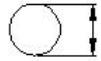
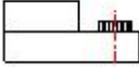


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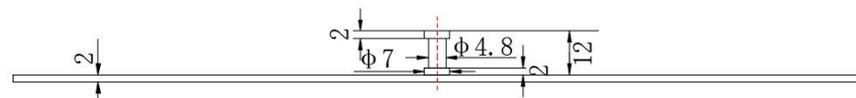
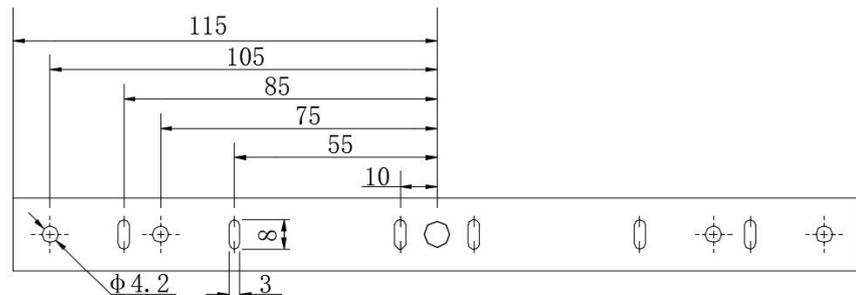
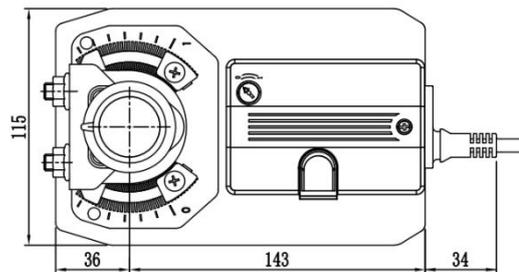
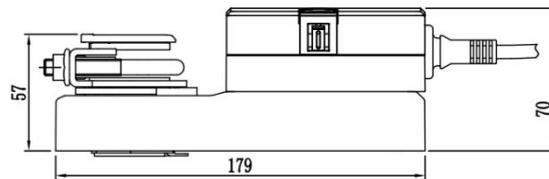
EA700-30/40 Shaft Dimensions



Unit: mm

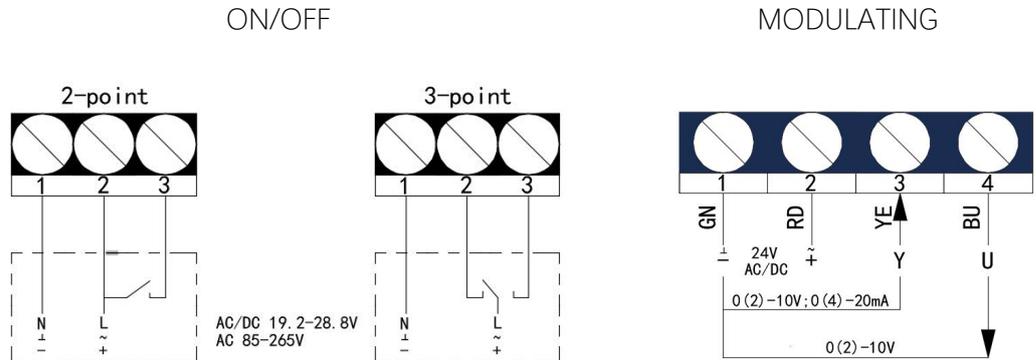
Throttle Axis	Length			
	≥ 52	12....26.7	≥ 12	≤ 26.7

EA700-30/40 Shape and Mounting Dimensions (mm)



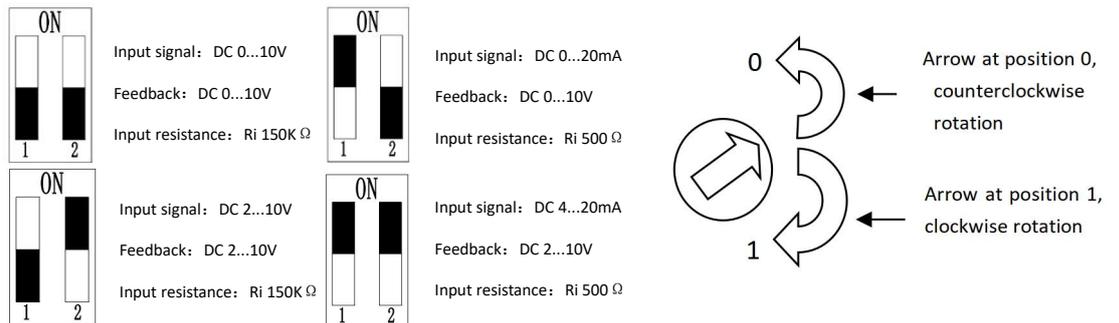
EA700 Series Damper Actuators Installation Diagram

Wiring Diagram



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.



Auxiliary Switch Description

