

EA700 Series Standard Damper Actuators



Designed for damper control within HVAC systems.

Torque:

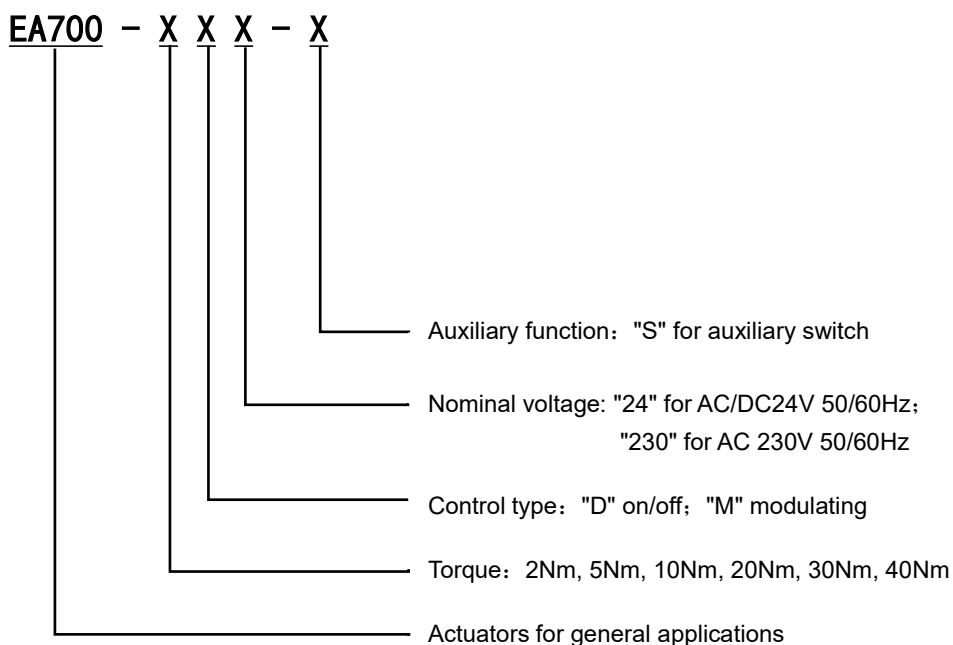
2Nm, 5Nm, 10Nm, 20Nm, 30Nm, 40Nm

Nominal Voltage and Control Type:

AC/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 Series Standard Damper Actuators

2Nm Model Selection

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 Specifications

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℃		
Ambient Humidity		5~95%RH		
Storage Temperature		-40~+80℃		
Dimension/Weight/Other				
Shaft		 8-18mm		
Weight		0.5Kg		
Certificate		CE、UL、UKCA、RoHS		

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5Nm Model Selection

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 Specifications

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℃		
Ambient Humidity		5~95%RH		
Storage Temperature		-40~+80℃		
Dimension/Weight/Other				
Shaft		 8-18mm		
Weight		0.5Kg		
Certificate		CE、UL、UKCA、RoHS		

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10Nm Model Selection

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 Specifications

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	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	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

EA700 Series Standard Damper Actuators

20Nm Model Selection

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 Specifications

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*0.75mm²; Modulating Type: 1m cable 4*0.5mm²; Feedback Signal: 1m cable 6*0.5mm²		
General Parameters				
Torque		20Nm		
Damper Size		4m²		
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℃		
Ambient Humidity		5~95%RH		
Storage Temperature		-40~+80℃		
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

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 Specifications

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*0.75mm²; Modulating Type: 1m cable 4*0.5mm²; Feedback Signal: 1m cable 6*0.5mm²		

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



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 Specifications

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	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	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

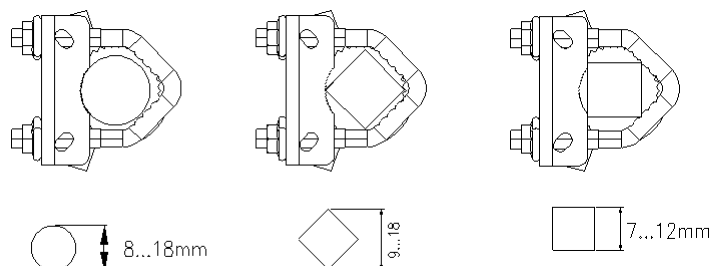
Protection Class	II /III		
Protection Level	IP54		
Ambient Temperature	-30~+50℃		
Ambient Humidity	5~95%RH		
Storage Temperature	-40~+80℃		

Dimension/Weight/Other

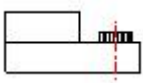
Shaft	 12-26.7mm; If the size of the damper shaft is small, use shaft spacer 6		
Weight	1.4Kg		
Certificate	CE、UL、UKCA、RoHS		

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

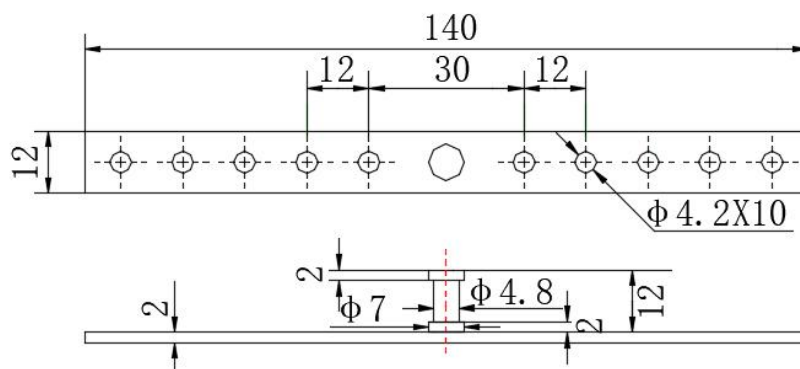
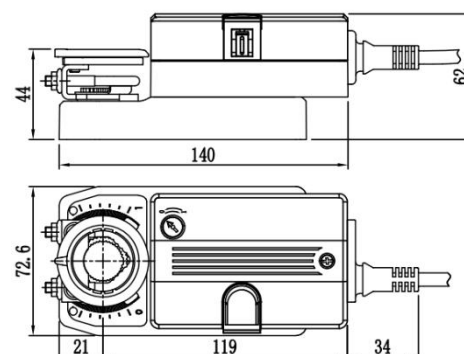
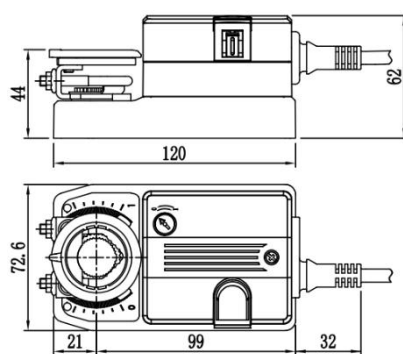
EA700-2/5M24

EA700-2/5M24-S

EA700-2/5D24-S

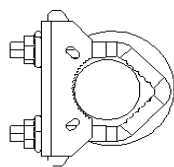
EA700-2/5D230-S

EA700-2/5D230

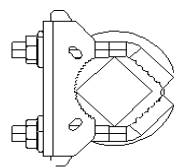


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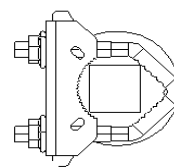
EA700-10/20 Shaft Dimensions



12...26,7mm

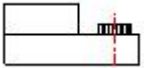


10...26,7



10...20mm

Unit: mm

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

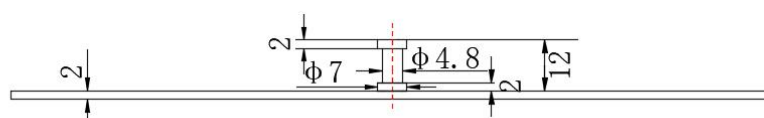
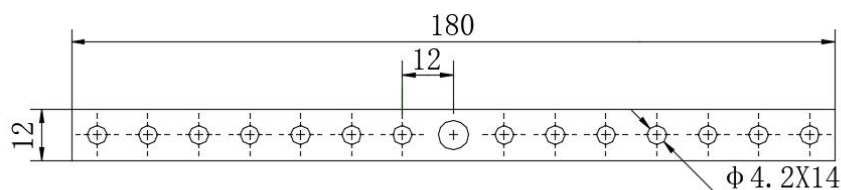
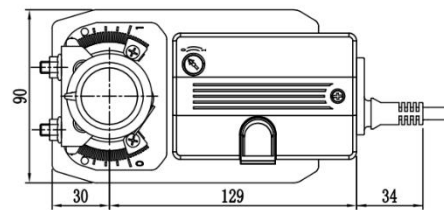
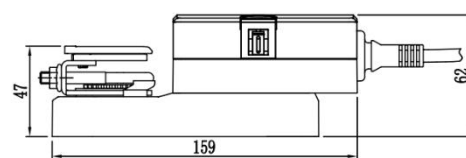
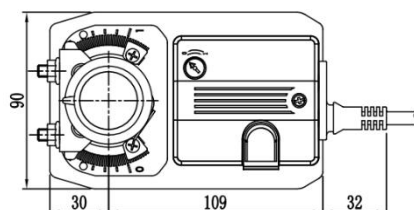
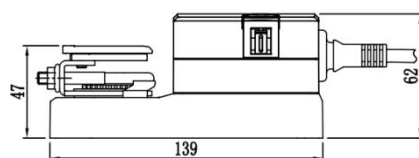
EA700-10/20 Shape and Mounting Dimensions (mm)

EA700-10/20D24

EA700-10/20M24

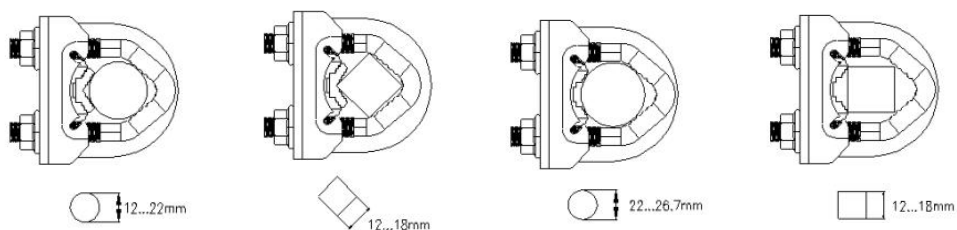
EA700-10/20M24-S EA700-10/20D230-S

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

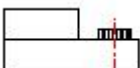


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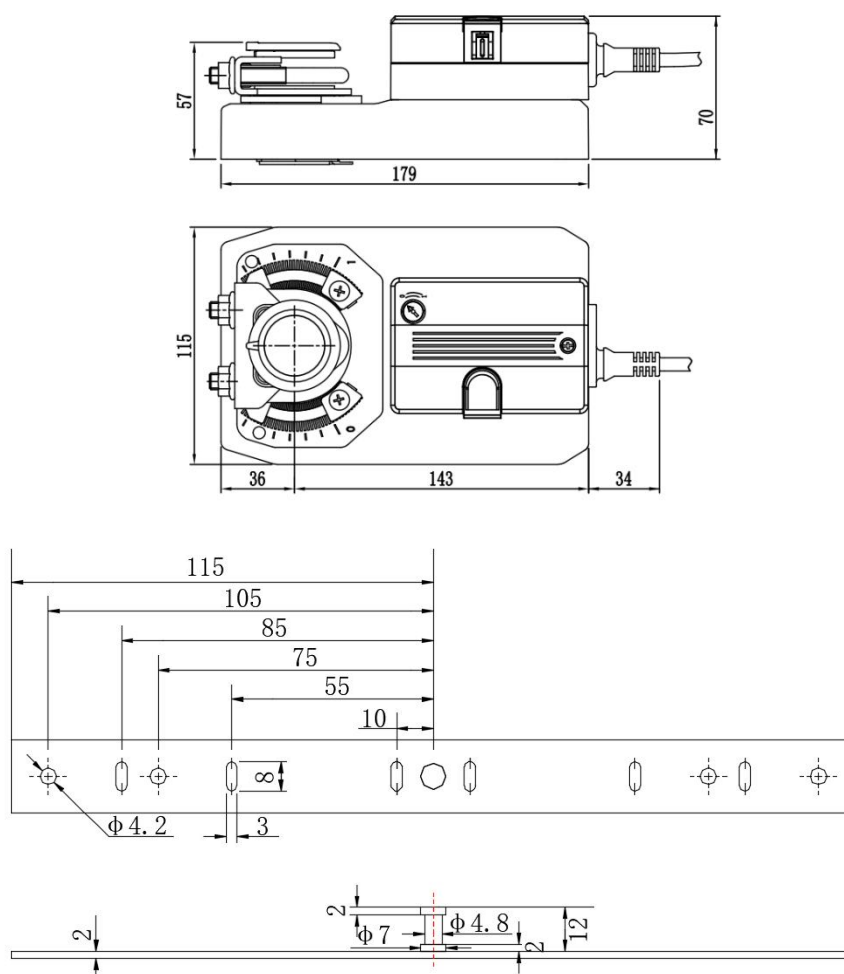
EA700-30/40 Shaft Dimensions



Unit: mm

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

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

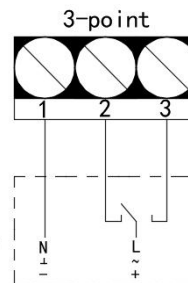
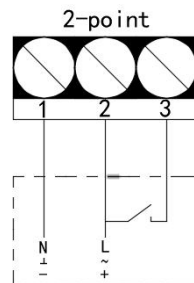
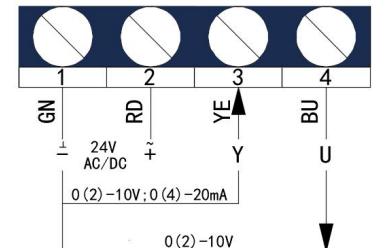


EA700 Series Damper Actuators Installation Diagram

Wiring Diagram

ON/OFF

MODULATING

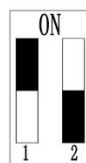

AC/DC 19.2-28.8V
AC 85-265V


Control signal and Input resistance

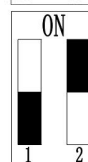
According to on-site needs, the position of the SW1 dial switch in the circuit board can be adjusted to achieve the conversion of control signals and feedback signals, as shown in the following figure.



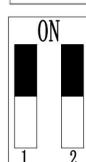
Input signal: DC 0...10V
Feedback: DC 0...10V
Input resistance: Ri 150K Ω



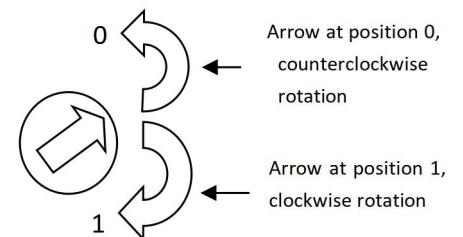
Input signal: DC 0...20mA
Feedback: DC 0...10V
Input resistance: Ri 500 Ω



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

