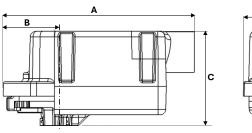
FB... Actuator Series

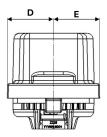
On/Off, On/Off + Switch, Modulating



Fail Sa	fe		Auxiliary switch						
Specification		FB24	FB24-S	FB24M	FBLV				
Control	Signal	On/Off	On/Off + Switch	Modulating (0)2 -10VDC	On/Off				
	Voltage AC	24 VA	C 50/60 Hz	110 -230 VAC ± 10%					
	Voltage DC	2							
	Overload Protection								
Power	Consumption	1 W	1.5 W 0.5 W						
	Transformer	1 VA (Class 2)	2 VA (Class 2)	1 VA (Class 2)					
	Connection	Plenum rated cable 18 AWG: 3 ft (1 m)			Plenum rated cable 18 AWG: 3 ft (1 m)				
	Runtime (Motor)	80 Se	conds	conds					
	Runtime (CAP)	50 Seconds							
	Manual Overide	With actuator body							
	Rotation Angle	90°, tool free field adjustable mechanical stops							
Operation	Rotation Direction (Motor)	Jumper Switch CW/CCW,							
	Rotation Direction (CAP)	Jumper Switch CW/CCW,							
	Position Indicator	Visual Pointer							
	Noise Motor	35dBA							
	Noise Motor Cap	35dBA							
Housing	Protection	NEMA 1 / IP40							
	Rating	UL94-5V (B)							
Temp.	Ambient	-0°F to 122°F (-18°C to 50°C)							
	Storage	-22°F to 122°F (-30°C to 50°C)							
	Humidity	5 to 95% non-condensing							
	cULus UL 60730-1A/-2-14								
Agency	CAN/CAS E60730-1:2								
Listing	CE according to 2004/108/EC and 2006/95/EC for line voltage								

Dimensions									
Α		В		С		D		E	
inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
4.89	124	1.43	36.3	2.34	59.4	1.11	28.3	1.11	28.3





On/Off: FB24

On/Off, Auxiliary Switch: FB24-S

Modulating: FB24M

On/Off Line Voltage: FBLV

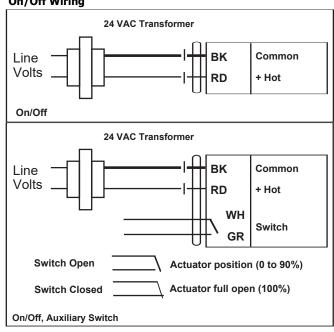




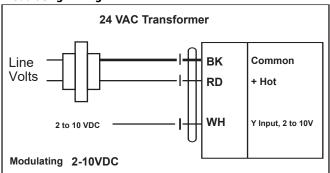
WARNING

Connect the Actuator Common to the Controller Hot connection. Actuator must be installed by licensed or electrically trained technician. Failure to follow electrical safety precaution when working with live electrical connection could result in injury or death.

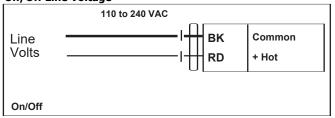
On/Off Wiring



Modulating Wiring







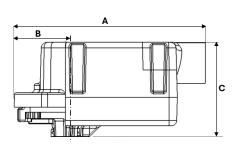
NB... Actuator Series

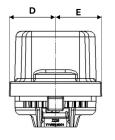
On/Off Floating, Modulating

Non-Fail -Safe

Specification		NB24F	NB24M	NBLVF				
Control	Signal	On/Off, Floating (3-Point)	Modulating (0)2 -10VDC	On/Off, Floating (3-Point)				
	Voltage AC	24 VAC 50/6	110 - 230 VAC ± 10%					
	Voltage DC	24 VDC						
	Overload Protection							
Power	Consumption	0.5 W	0.5 W					
	Transformer	1 VA (Class 2)	1 VA (Class 2)	2 VA				
	Connection	Plenum rated o	Plenum rated cable 16 AWG: 3 ft (1 m)					
	Run time (Motor)		,					
	Manual Overide	With actuator body						
Operation	Rotation Angle	90°, tool free	le mechanical					
•	Rotation Direction	Jumpe	//CCW					
	Position Indicator		r					
	Noise	35dBA						
Housing	Protection	NEMA 1 / IP40						
	Rating	UL94-5V (B)						
Temp.	Ambient	-0°F to 122°F (-18°C to 50°C)						
	Storage	-22°F to	to 50°C)					
	Humidity	ensing						
	cULus UL 60730-1A/-2-14							
Agency	CAN/CAS E60730-1:2							
Listing	CE according to 2004/108/EC and 2006/95/EC for line voltage							

Dimensions										
Α		E	В		С		D		E	
inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	
4.89	124	1.43	36.3	2.34	59.4	1.11	28.3	1.11	28.3	







On/Off, Floating Point: NB24F

Modulating: NB24M

On/Off, Floating Point Line Voltage: NBLVF

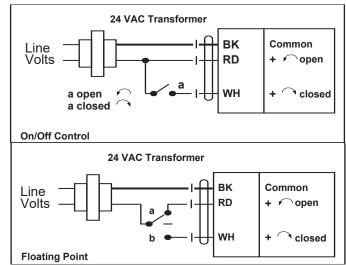




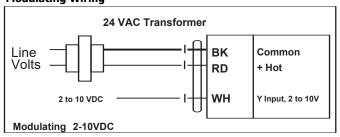
WARNING

Connect the Actuator Common to the Controller Hot connection. Actuator must be installed by licensed or electrically trained technician. Failure to follow electrical safety precaution when working with live electrical connection could result in injury or death.

On/Off, Floating Wiring



Modulating Wiring



On/Off, Floating Line Voltage

