FlowCon SM Actuators

FlowCon Electrical Actuators

SPECIFICATIONS

FlowCon SM.0.0.0.3 (standard)

Supply voltage:	24V AC/DC, 50/60 Hz
Type:	Electrical, brushless motor
Power consumption:	12VA
Control signal:	Analog 0-10V DC, 2-10V DC, 0-20mA, 4-20mA or Digital (2-position / 3-point-floating)
Feedback:	Automatic match of control input or 0-10V DC, 2-10V DC or 4-20mA
Failsafe fuction:	No
Auto stroke:	Yes
Operation time:	190 seconds (from closed to fully open valve)
Ambient temperature:	+14°F to +122°F
Humidity rating:	5 to 95% RH, no condensation
Protection:	IP54 including upside-down
Cable:	Fixed, 5 wires ø0.65mm halogen free cable, 3.28 ft
Closing point adjustment:	Automatic calibration at startup
Housing material:	UL94 V0-rated plastic
Programming:	External programming of all settings, interface of buttons and display
Valve - actuator coupling:	Easy snap coupling
BACnet:	No

FlowCon SM.0.0.0.4 (standard and failsafe)

Supply voltage:	24V AC/DC, 50/60 Hz
Type:	Electrical, brushless motor
Power consumption:	12VA
Control signal:	Analog 0-10V DC, 2-10V DC, 0-20mA, 4-20mA or
	Digital (2-position / 3-point-floating)
Feedback:	Automatic match of control input or 0-10V DC, 2-10V DC or 4-20mA
Failsafe fuction:	Yes, open or close
Auto stroke:	Yes
Operation time:	190 seconds (from closed to fully open valve)
Ambient temperature:	+14°F to +122°F
Humidity rating:	5 to 95% RH, no condensation
Protection:	IP54 including upside-down
Cable:	Fixed, 5 wires ø0.65mm halogen free cable, 3.28 ft
Closing point adjustment:	Automatic calibration at startup
Housing material:	UL94 V0-rated plastic
Programming:	External programming of all settings, interface of buttons and display
Valve - actuator coupling:	Easy snap coupling
BACnet:	No

FlowCon SM.0.0.0.5 (BACnet)

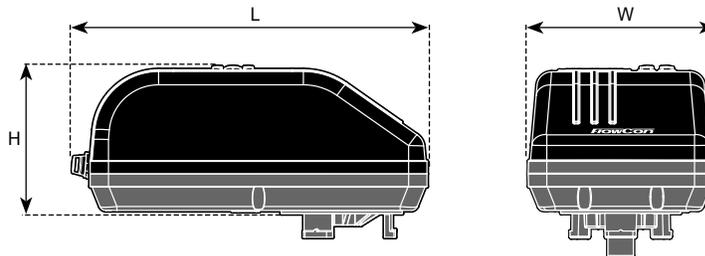|	
Supply voltage:	24V AC/DC, 50/60 Hz
Type:	Electrical, brushless motor
Power consumption:	12VA
Control signal:	Analog 0-10V DC, 2-10V DC, 0-20mA, 4-20mA or
	Digital (2-position / 3-point-floating)
Feedback:	Automatic match of control input or 0-10V DC, 2-10V DC or 4-20mA
Failsafe fuction:	No
Auto stroke:	Yes
Operation time:	190 seconds (from closed to fully open valve)
Ambient temperature:	+14°F to +122°F
Humidity rating:	5 to 95% RH, no condensation
Protection:	IP54 including upside-down
Cable:	Control/Supply: Fixed, 5 wires ø0.65mm halogen free cable, 3.28 ft
	BACnet: Fixed, 3 wires ø0.65mm halogen free cable, 3.28 ft
Closing point adjustment:	Automatic calibration at startup
Housing material:	UL94 V0-rated plastic
Programming:	External programming of all settings, interface of buttons and display
	or through BACnet connection
Valve - actuator coupling:	Easy snap coupling
BACnet:	Yes
BACnet device profile:	BACnet Application Specific Controller (B-ASC) type server
BACnet protocol:	BACnet Master Slave/Token passing (MS/TP)
BACnet baud rates supported:	9600, 19200, 38400 and 76800
BACnet services (BIBBS) supported:	DS-RP-B, DS-WP-B, DM-DDB-B, DM-DOB-B and DM-DCC-B

SPECIFICATIONS (...continued)

FlowCon SM.0.0.0.6 (with BACnet and failsafe)

Supply voltage:	24V AC/DC, 50/60 Hz
Type:	Electrical, brushless motor
Power consumption:	12VA
Control signal:	Analog 0-10V DC, 2-10V DC, 0-20mA, 4-20mA or
	Digital (2-position / 3-point-floating)
Feedback:	Automatic match of control input or 0-10V DC, 2-10V DC or 4-20mA
Failsafe fuction:	Yes, open or close
Auto stroke:	Yes
Operation time:	190 seconds (from closed to fully open valve)
Amibient temperature:	+14°F to +122°F
Humidity rating:	5 to 95% RH, no condensation
Protection:	IP54 including upside-down
Cable:	Control/Supply: Fixed, 5 wires ø0.65mm halogen free cable, 3.28 ft
	BACnet: Fixed, 3 wires ø0.65mm halogen free cable, 3.28 ft
Closing point adjustment:	Automatic calibration at startup
Housing material:	UL94 V0-rated plastic
Programming:	External programming of all settings, interface of buttons and display
	or through BACnet connection
Valve - actuator coupling:	Easy snap coupling
BACnet:	Yes
BACnet device profile:	BACnet Application Specific Controller (B-ASC) type server
BACnet protocol:	BACnet Master Slave/Token passing (MS/TP)
BACnet baud rates supported:	9600, 19200, 38400 and 76800
BACnet services (BIBBS) supported:	DS-RP-B, DS-WP-B, DM-DDB-B, DM-DOB-B and DM-DCC-B

DIMENSIONS AND WEIGHTS (NOMINAL) (measured in inch unless noted)

Actuator	L	W	H	Weight (lbs.)
SM.0.0.0.3				0.55
SM.0.0.0.4				0.66
SM.0.0.0.5	7.64	4.02	3.19	0.55
SM.0.0.0.6				0.66

| | | | White | Analog Signal | | White Green | Control Signal Feedback |

Digital - 2 position - No feedback   **Digital - 2 position - With feedback**

MODEL NUMBER SELECTION

		Black	Common		Black	Common
Supply		White	Drive CW		Blue	24 VAC/VDC **SM.0.0.0._____**
24 VAC/VDC		Red	Drive CCW	Supply	White	Open if NC, Close if NO
				24 VAC/VDC	Red	Close if NC, Open if NO
					Green	Feedback

Insert type:
3=standard
4=standard and failsafe
5=BACnet
6=BACnet and failsafe

Example: SM.0.0.0.4=FlowCon SM standard actuator with failsafe.

WIRING INSTRUCTION

Control supply

Analog

Black — Common
Blue — 24 VAC/VDC
White — Control Signal
Green — Feedback

Digital - 2-position

Black — Common
Blue — 24 VAC/VDC
White — Open if NC, Close if NO
Red — Close if NC, Open if NO
Green — Feedback

Supply 24 VAC/VDC
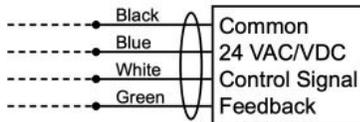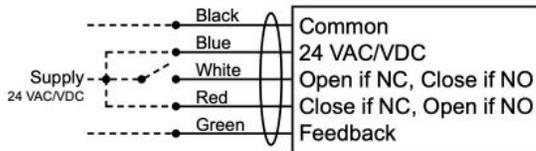
Digital - 3-point-floating

Black — Common
Blue — 24 VAC/VDC
White — Open if NC, Close if NO
Red — Close if NC, Open if NO
Green — Feedback

Supply 24 VAC/VDC
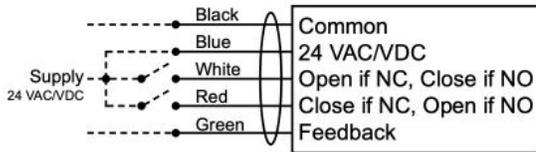
If feedback signal is not required, leave green wire detached.

BACnet

Black — Common
Red — A+
White — B-