

# ULTRA-ZONE<sup>®</sup>

Forced Air Zone Controls

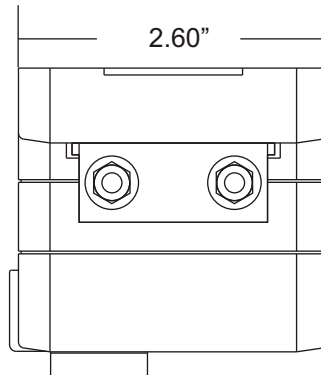
## SUBMITTAL SHEET

Model MA-LM24SR-T Actuator

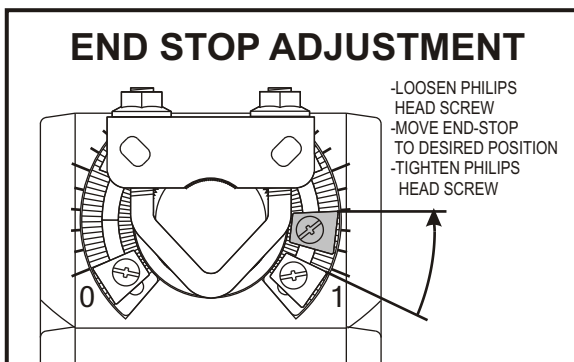
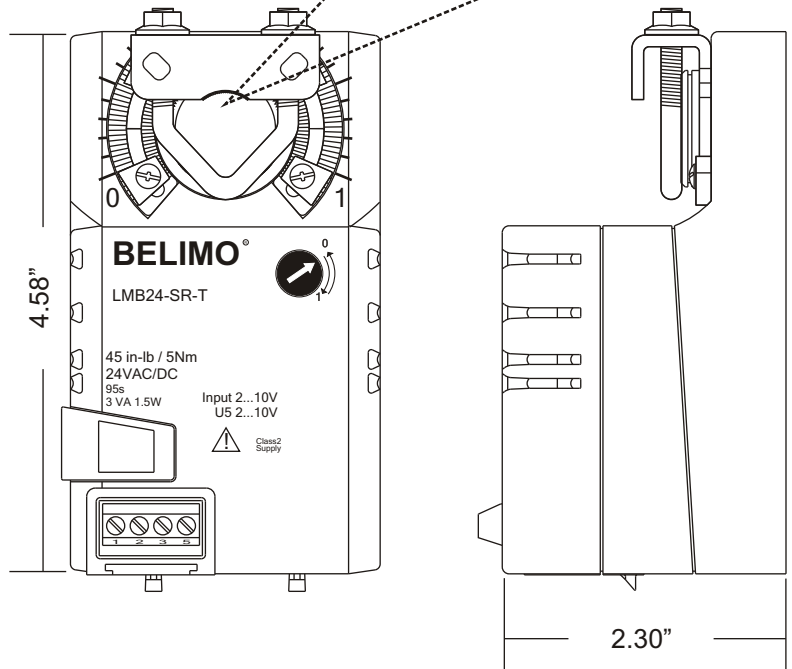
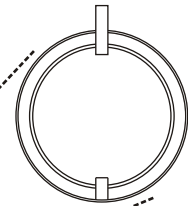
The MA-LM24SR-T motor actuators are easy to install, easy to wire up, and come with a 5 year warranty. The superior design insures long life and no maintenance. *Airflow can be from either direction and the Motor can be oriented in any position in a conditioned area.* The UL Listed Motor Actuator is a 2-10vdc Proportional controlled actuator rated at 45 in.-lbs. of torque and 95 second rotation time. It includes an integrated terminal block, and NEMA1 rated housing. End-Stop adjustment allows for a percentage of Relief Air (Leakage) to be set when the damper is powered to close. Optional Model S1A, Auxiliary end-switch can be added for control of auxiliary devices. The MA-LM24SR-T can be controlled from any 2-10vdc or 4-20mA control. The actuator can also be controlled with the optional Manual Positioner (Model MP) or Proportional Thermostat (Model EWT-P).

Technical Data

Power Supply	24 VAC ± 20% 50/60Hz 24 VDC ± 10%
Power Consumption	1.5 W
Transformer Sizing	3 VA(Class 2 power source)
Electrical Connection	Screw Terminal (26 to 14 GA Wire)
Torque	45 in-lb [2 Nm]
Direction of Rotation	Reversible with ↺ / ↻ switch ↺ =CCW with decreasing control signal ↻ =CW with decreasing control signal (10 to 2 volt)
Manual Override	External Push Button
Running Time	95 seconds, constant independent of load
Humidity	5 to 95% RH Non-Condensing
Ambient Temperature	-22°F to +122°F [-30°C to +50°C]
Storage Temperature	-40°F to +176°F [-40°C to +80°C]
Housing	NEMA 1 / IP20
Housing Material	UL94-5VA
Agency Listings	cULus
Noise Level	< 35dB(A)



Positional Indicator not attached for clarity



**SUBMITTAL FORM**

SUBMITTED BY: \_\_\_\_\_  
 JOB: \_\_\_\_\_  
 ARCHITECT: \_\_\_\_\_  
 ENGINEER: \_\_\_\_\_  
 CONTRACTOR: \_\_\_\_\_  
 LOCATION: \_\_\_\_\_



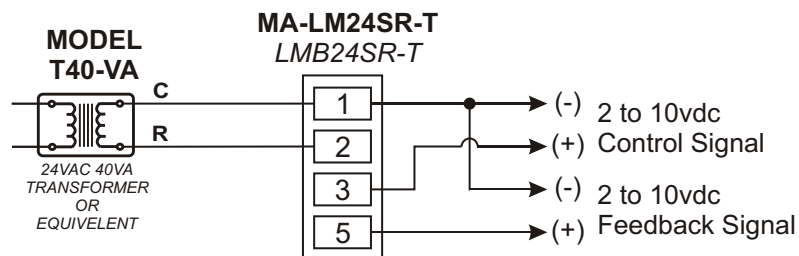
385 Hwy. 33  
 Englishtown, NJ 07726  
 Ph: 800-446-3110  
 Fx: 732-446-5362

## WIRING SOLUTIONS

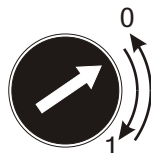
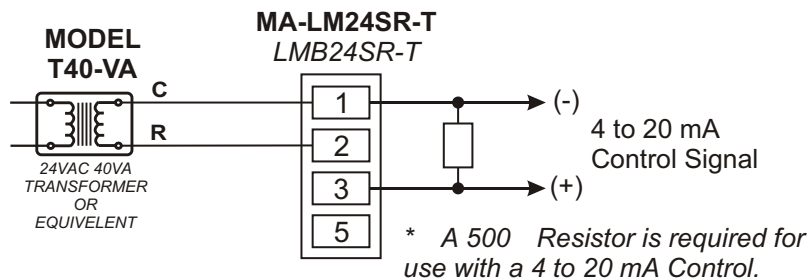
### Motor Actuator Terminals

TERMINAL	DESCRIPTION
1	24v Common
2	24v Hot
3	2-10vdc / 4-20mA Control Signal
5	2-10vdc Feedback Signal

### Wiring with 2 to 10 vdc Control Signal



### Wiring with 4 to 20 mA Control Signal



#### DIRECTION OF ROTATION

Clockwise = Close

Counter-Clockwise = Open

\*For reverse operation Change switch position