



| Technical Data | |
|-----------------------------------|---|
| Power Supply | 24 VAC, ±20%, 50/60 Hz, 24 VDC, ±10% |
| Power Consumption Running | 2.5 W |
| Power Consumption Holding | 1 W |
| Transformer Sizing | 4 VA (class 2 power source) |
| Electrical Connection | 3ft [1m], 10ft [3m] or 16ft [5m] 18 GA |
| | appliance or plenum cables, with or without |
| 0 1 15 | 1/2" conduit connector |
| Overload Protection | electronic throughout 0° to 95° rotation |
| Operating Range Y | 2 to 10 VDC, 4 to 20 mA w/ ZG-R01 (500 Ω , 1/4 W resistor) |
| Input Impedance | 100 k Ω for 2 to 10 VDC (0.1 mA), 500 Ω for |
| | 4 to 20 mA, 1500 Ω for PWM, floating point |
| Foodback Output II | and On/Off |
| Feedback Output U | 2 to 10 VDC, 0.5 mA max, VDC variable |
| Angle of Rotation | Max. 95°, 90° |
| Direction of Rotation (Motor) | reversible with built-in switch |
| Direction of Rotation (Fail-Safe) | reversible with CW/CCW mounting |
| Position Indication | visual indicator, 0° to 95° (0° is full spring |
| Durania a Time (Mateu) | return position) |
| Running Time (Motor) | 150 sec |
| Running Time (Fail-Safe) | <25 sec |
| Ambient Humidity | max. 95% RH non-condensing |
| Ambient Temperature Range | -22°F to 122°F [-30°C to 50°C] |
| Storage Temperature Range | -40°F to 176°F [-40°C to 80°C] |
| Housing | NEMA 2, IP42, UL Enclosure Type 2 |
| Housing Material | UL94-5VA |
| Agency Listings† | cULus acc. to UL60730-1A/-2-14, CAN/CSA |
| | E60730-1:02, CE acc. to 2004/108/EC and |
| | 2006/95/EC |
| Noise Level (Motor) | <35 dB (A) |
| Noise Level (Fail-Safe) | <62 dB (A) |
| Servicing | maintenance free |
| Quality Standard | ISO 9001 |
| Weight | 1.8 lb [0.8 kg] |
| | |

^{*}Variable when configured with MFT options. †Rated Impulse Voltage 800V, Type of action 1.AA, Control Pollution Degree 3



Wiring Diagrams



🔀 INSTALLATION NOTES



Actuators with appliance cables are numbered.



Provide overload protection and disconnect as required.



impedance must be observed. Actuators may also be powered by 24 VDC.



Two built-in auxiliary switches (2x SPDT), for end position indication, interlock control, fan startup, etc.

Actuators may be connected in parallel. Power consumption and input



Only connect common to negative (-) leg of control circuits.



A 500 Ω resistor (ZG-R01) converts the 4 to 20 mA control signal to 2 Control signal may be pulsed from either the Hot (Source) or Common



(Sink) 24 VAC line. For triac sink the Common connection from the actuator must be



connected to the Hot connection of the controller. Position feedback cannot be used with a triac sink controller: the actuator internal common reference is not compatible.



IN4004 or IN4007 diode. (IN4007 supplied, Belimo part number 40155).



Actuators with plenum cable do not have numbers; use color codes



Meets cULus requirements without the need of an electrical ground connection.



WARNING! LIVE ELECTRICAL COMPONENTS!

During installation, testing, servicing and troubleshooting of this product, it may be necessary to work with live electrical components. Have a qualified licensed electrician or other individual who has been properly trained in handling live electrical components perform these tasks. Failure to follow all electrical safety precautions when exposed to live electrical components could result in death or serious injury.

