



Technical Data	
Power Supply	24 VAC, ±20%, 50/60 Hz, 24 VDC, ±10%
Power consumption in operation	13 W
Power consumption in rest	1.5 W
position	
Transformer sizing	23 VA (class 2 power source)
Electrical Connection	18 GA plenum rated cable with 1/2" conduit
	connector protected NEMA 2 (IP54) 3ft
	[1m] 10ft [3m] and 16ft [5m]
Overload Protection	electronic thoughout 0° to 90° rotation
Electrical Protection	actuators are double insulated
Operating Range	DC 210 V (default), 4 to 20 mA w/ ZG-R01
	(500 Ω, 1/4 W resistor), variable (VDC,
	floating point, on/off)
Operating range Y variable	starting point DC 0.530 V
Innut	end point DC 2.532 V
Input Impedance	100 kΩ for 2 to 10 VDC (0.1 mA), 500 Ω for 4 to 20 mA
Position Feedback	DC 210 V, Max. 0.5 mA, VDC variable
Angle of rotation	90°
direction of rotation motor	reversible with built-in switch
Position indication	integrated into handle
Manual override	external push button
Running time motor	default 4 sec, variable 2.510 sec
Ambient humidity	5 to 95% RH non-condensing
Ambient temperature	-22122 °F [-3050 °C]
Non-operating temperature	-40176 °F [-4080 °C]
Degree of Protection	IP42, NEMA 2, UL Enclosure Type 2
Agency Listing	cULus acc. to UL60730-1A/-2-14. CAN/CSA
3 - 1, - 3	E60730-1:02, CE acc. to 2004/108/EC
Noise level, motor	max. 52 dB (A)
Maintenance	maintenance free
Quality Standard	ISO 9001
Weight	0.85 kg

†Rated Impulse Voltage 800V, Type action 1.B , Control Pollution Degree 3.





Modulating, Non-Spring Return, 24 V, Multi-Function Technology®

Wiring Diagrams



X INSTALLATION NOTES



Provide overload protection and disconnect as required.



Actuators may be connected in parallel. Power consumption and input impedance must be observed.



Actuators may also be powered by 24 VDC.



A 500 Ω resistor (ZG-R01) converts the 4 to 20 mA control signal to 2 to 10 VDC.



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

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



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



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.

