

# ARB24-SR-T

Modulating, Non-Spring Return, 24 V, for 2 to 10 VDC or 4 to 20 mA



| Technical Data                |                                                                             |
|-------------------------------|-----------------------------------------------------------------------------|
| Power Supply                  | 24 VAC, $\pm 20\%$ , 50/60 Hz, 24 VDC, $\pm 10\%$                           |
| Power Consumption Running     | 2.5 W                                                                       |
| Power Consumption Holding     | 0.4 W                                                                       |
| Transformer Sizing            | 5 VA (class 2 power source)                                                 |
| Electrical Connection         | terminal block                                                              |
| Overload Protection           | electronic throughout 0° to 90° rotation                                    |
| Operating Range Y             | 2 to 10 VDC, 4 to 20 mA w/ ZG-R01 (500 $\Omega$ , 1/4 W resistor)           |
| Input Impedance               | 100 k $\Omega$ for 2 to 10 VDC (0.1 mA), 500 $\Omega$ for 4 to 20 mA        |
| Feedback Output U             | 2 to 10 VDC                                                                 |
| 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)          | 90 sec                                                                      |
| 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, IP54                                                                |
| Agency Listings†              | cULus acc. to UL60730-1A/-2-14, CAN/CSA E60730-1:02, CE acc. to 2004/108/EC |
| Noise Level (Motor)           | <45 dB (A)                                                                  |
| Servicing                     | maintenance free                                                            |
| Quality Standard              | ISO 9001                                                                    |

†Rated Impulse Voltage 800V, Type of Action 1, Control Pollution Degree 2.

**Wiring Diagrams**
**INSTALLATION NOTES**

- 1 Provide overload protection and disconnect as required.
- 2 Actuators may be connected in parallel. Power consumption and input impedance must be observed.
- 3 Actuators may also be powered by 24 VDC.
- 5 Only connect common to negative (-) leg of control circuits.
- 7 A 500  $\Omega$  resistor (ZG-R01) converts the 4 to 20 mA control signal to 2 to 10 VDC.
- 16 Actuators are provided with a numbered screw terminal strip instead of a cable.

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.

