



## Product Data

# DRN4

Multiple DDC Signal Input to Proportional Resistance Output

## Product Description

The DRN4 is a resistive output motor actuator interface that accepts several types of DDC system signals. The DRN4 output is 0 to 135 ohms. The input signal types are field selectable by an 8-position DIP switch. Signal input selections include voltage, current, pulse and floating point. Voltage input ranges are 0-5, 1-5, 0-10, or 2-10. Current ranges are 0-20 or 4-20 milliamps. Standard timing ranges are 0.59-2.93s, 0.02-5s, and 0.1-25.5s for Version #1 and 0.023 to 6 sec pulse timing range for Solidyne™. The floating point input accepts two digital signals, one for increase and the other for decrease. The floating point full scale rate of change is 55 seconds. Some triac input signals require an accessory.

The DRN4 is supplied in an enclosure that can be directly mounted to a 1/2 inch knockout on the motor actuator. Color coded wire leads with spade connectors are provided for electrical connections.

The DRN4 is covered by ACI's Two (2) Year Limited Warranty, which is located in the front of ACI'S SENSORS & TRANSMITTERS CATALOG or can be found on ACI's Website, which is: [www.workaci.com](http://www.workaci.com).

Specify: DRN4 \_\_\_\_\_  
 ↑  
 ( ) Version 1 (Standard Ranges :See Below)  
 (Ver#2) Version 2 (0.023 to 6 sec Solidyne™)

**Note:** Some triac inputs require a triac adapter kit, order this with the DRN4. **Exception!** Johnson Control triac input signal requires a 1,000 ohm 1/2 watt resistor, and is included with all DRN4s.

## Product Specifications

<b>Supply Voltage</b>	24VAC or 24VDC, +/-10%
<b>Supply Current</b>	130mA max
<b>Input (Pulse) Signal Source</b> Signal Trigger Level Off Time Between Pulses Standard ranges:	Relay, contact closure, transistor or triac (adapter required) 5 to 24 volts AC or DC 80 milliseconds .59 - 2.93 sec, .02 - 5 sec, .1 - 25.5 sec
<b>Input (Floating Point or Tri-State)</b> Signal Source Signal Trigger Level Rate of Change	Relay, contact closure, transistor or triac (ACT Triac Adaptor Kit Required (order triac adapter kit) 5 to 24 volts AC or DC 55 seconds for full output span
<b>Input (Analog)</b> Impedance	0-5, 1-5, 0-10, and 2-10VDC / 0-20 and 4-20mA 100,000 ohms (voltage) / 250 ohms (current)
<b>Resistive Output / Resolution</b>	0 to 135Ω (3 watts) / 32 steps
<b>Operating Temp/RH</b>	32 to 120° F (0 to 48.9° C) / 10 to 95% non condensing
<b>Relay Contacts</b> Rating Electrical Life Mechanical Life	Form C, Gold-clad silver 2 amp max resistive @ 24 volts 100,000 operations @ 1 amp 10 million operations
<b>Approval</b>	RoHS

Wiring Diagrams available at [www.workaci.com](http://www.workaci.com)

## Interface Devices



### Attributes:

- Mounts directly to actuator
- Accepts voltage, current, pulse or floating point control signals
- Local override button for easy field testing
- Available in 135 ohm output resistance
- LED status indicator
- Snap track included

### Applications:

- Electric actuator control
- Electronic potentiometer
- Resistive sensor simulation
- Remote volume control
- Motor pot replacement



Made in the USA

Automation Components, Inc.  
 2305 Pleasant View Rd.  
 Middleton, WI 53562  
 PH: (608) 831-2585  
 FAX: (608) 831-7407

TEMPERATURE

RELATIVE HUMIDITY

PRESSURE

CURRENT

GAS SENSORS

ACCESSORIES

INTERFACE DEVICES