



The transmitter/relay module has been specifically designed for use with the DHC positioner via plug and socket installation, and is supplied with its own terminal strip. This module provides a selectable output signal of 0-20 mA as a current output signal, or 0-10 VDC as a voltage output signal. It also provides three SPST relay contact outputs that are typically used as end of travel limit switches (open and closed), and a fault indicator (loss of power, etc.). These contacts are rated for 1A at 24 VDC / 0.5A at 125 VAC.

Standard Features

- Transmitter/relay plugs directly into DHC-100 positioner card
- Its own terminal strip
- Selectable current (0-20mA), or voltage (0-10 VDC) output signal
- Three SPST independently configurable relay contacts
- Simple calibration via DHC-100 push-buttons
- Control signal not required for calibration

Specifications

Positioner

POWER REQUIREMENTS

DHC-100: 117 VAC \pm 10%, 50/60 Hz
 12 VA typical (not including output load)
 Fuse Type: 5A TR5 Slo-Blo (replaceable)

COMMAND SIGNAL INPUT

Input Impedance
 20K ohms (1-5 VDC, 0-5 VDC, 0-10 VDC Input)
 251 ohms \pm 1% (4-20 mA Input)
 Loss of Command threshold
 < 0.75V or > 5.5V (1-5 VDC input)
 < 3 mA or > 22 mA (4-20 mA input)

FEEDBACK SIGNAL INPUT

Input Voltage: 0 to 2.5 VDC
 External Feedback Potentiometer: 1K ohm

POWER SUPPLY OUTPUTS

+15V OUT (J2-8): 125 mA maximum (not including option module)
 +5V OUT (J2-7): 5 mA maximum

NOTE: Do not connect these outputs to other power supplies.

AC MOTOR OUTPUTS

Off-state Leakage Current: <15 mA
 Maximum Load Current @ 150C: 5A

ENVIRONMENTAL

Operating Temperature Range: 32° F to 150° F
 Storage Temperature Range: -40° F to 185° F
 Relative Humidity Range: 0 to 90 percent (noncondensing)

Transmitter/Relay

CURRENT OUTPUT

0 to 20 mA @ 8 VDC or 400 Ω maximum
 Resolution: 0.0031mA

VOLTAGE OUTPUT

0-10vdc @ 10 mA maximum
 Resolution: 0.0016 VDC

RELAY OUTPUTS

Switch Contact Type: SPST
 Contact Rating (non-inductive):
 1A @ 24 VDC / 0.5A @ 125 VAC

ENVIRONMENTAL

Operating Temperature Range: 32° F to 150° F
 Storage Temperature Range: -40° F to 185° F
 Relative Humidity Range: 0 to 90 percent (non-condensing)