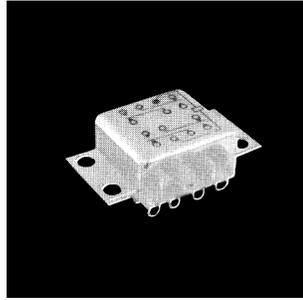


Four Pole, Electrically Held, 2 Amps and Less (Continued)

Long-life .150 Grid-space Relays
100,000,000 Operations At Low Levels
Type 3SDH (4PDT)

Product Facts

- Long life at low level or signal loads
- Low profile... only 0.32 inches high



The 3SDH relay is designed for 100,000,000 operations at low levels. It is a four pole double throw Grid-space relay. The 0.150 inch pin spacing allows the user to insert the relay with no intermediate pin spreaders. There is adequate clearance for conductor to reach all pins.

Electrical Characteristics

Contact Ratings —
 DC resistive — 2 amps at 28 volts, (DC 100,000 operations)
 DC inductive — 0.3 amp at 28 volts, (L/R not greater than 0.008)
 AC resistive — 0.5 amp at 115 volts, 400 or 60 Hz (enclosure isolated from ground, or enclosure and movable contact at same potential)
 AC resistive — 0.125 amp at 115 volts (enclosure at line potential with respect to movable contact)
 Low-level — 50 μ A at 50 mV Peak AC or DC
Contact Resistance —
 0.050 ohms max.;
 0.150 ohms after life test
Life — 100,000 operations at rated loads listed; 100,000,000 operations at low-level loads

Operating Characteristics

Operate Time @ +25°C —
 4 ms max.
Release Time @ +25°C —
 4 ms max.
Contact Bounce @ +25°C — 1.5 ms
Dielectric Strength —
 500 volts rms at sea level;
 350 volts rms at 70,000 feet
Insulation Resistance —
 1,000 megohms min. over temperature range
Environmental Characteristics
Vibration — 30 G, to 3,000 Hz
Shock — 100 G at 11 ms
Temperature — -40°C to +125°C

See page 1-59 for Mounting Forms, Terminals and Circuit Diagrams.

Coil Table (All Values DC)*Type 3SDH, 4 Pole Relay—210mW Sensitivity: (Code 1)

SENSITIVITY CODE: 1					
Coil Code Letter	Coil Resistance at 25C ohms	Voltage Calibrated, Code: 5			
		Suggested Source Volts†	Maximum Operate Volts at 25C	Release Voltage Range at 25C	
				Max.	Min.
B	28 \pm 10%	4.0- 7.0	3.0	1.6	0.3
D	73 \pm 10%	6.0-11.0	4.8	2.5	0.4
E	115 \pm 10%	8.0-14.0	5.9	3.2	0.6
G	280 \pm 10%	12 -22.0	9.3	5.0	0.8
H	430 \pm 10%	15 -26.0	11.5	6.0	1.0
K	720 \pm 10%	20 -35.0	14.9	8.1	1.5
N	1040 \pm 10%	26 -46.0	17.9	10.5	1.9

*Values listed are factory test and inspection values. User should allow for meter variations.
 †Applicable over the operating temperature range in circulating air.

Four Pole, Electrically Held, 2 Amps and Less (Continued)

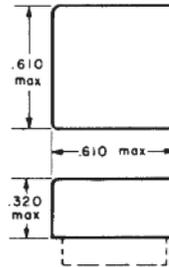
Mounting Forms (3SDH)

(Vibration note with each form is acceleration from 55 to 3000 Hz)

No Mount

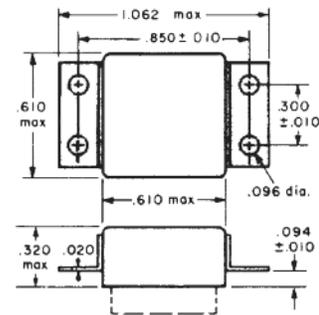
Mounting Code	Vibration*
00	30g

*Assumes relay held securely by potting or other means.



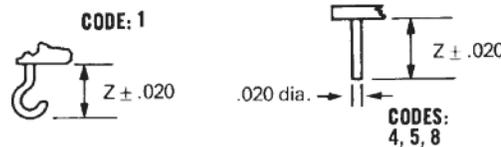
End Bracket

Mounting Code	Vibration
13	30g



Header Types

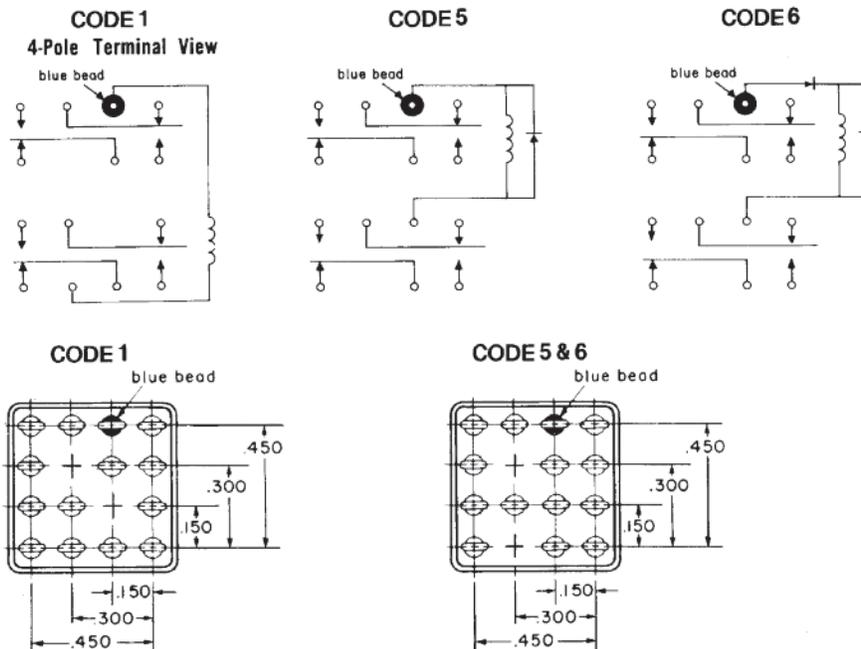
Type	Z Dimension	Header Code
Solder hook	0.13	1
Straight pin	0.12	8
Straight pin socket or PCB type)	0.19	4
Straight pin	0.25	5



All dimensions in inches

TOLERANCES (Unless otherwise specified)	
Hundredths	±0.020
Thousandths	±0.005

Header and Connection Diagrams



Ordering Instructions

Catalog-selected Relays: The catalog number is derived by choosing the proper CODE for each of the six relay characteristics in the order in which the codes are listed.

Example: The relay selected in this example is a 4PDT .150-grid relay, voltage calibrated, end bracket mounting, 0.13 inch solder hook header, 720 ohms coil resistance, and 210 mW sensitivity. By choosing the proper code for each of these relay characteristics, the catalog number is identified as 3SDH5131K1. The letter R following sensitivity code indicates relay received 5000 operation miss-test. Ex. 3SDH5131K1R.

