

Engineering Specifications	HGWM	HGJM	HGRM
Contact Form	1C, 2C, 1D, 2D	1C, 2C	1C, 2C, 1D, 2D
Contact Rating Maximum switching power Maximum switching voltage Maximum switching current Maximum carry current	100VA 500VDC or Peak VAC 2A 5A	100VA 500VDC or Peak VAC 2A 5A	100VA 500VDC or Peak VAC 2A 5A
Contact Resistance, Initial	30 milliohms max	30 milliohms max	30 milliohms max
Contact Material	Mercury to Mercury	Mercury to Mercury	Mercury to Mercury
Life Expectancy Signal level loads (ref 10VDC, 10mA)	2000 × 10 ⁶	2000 × 10 ⁶	2000 × 10 ⁶
Timing (at nominal VDC, 10Hz drive, 50% duty cycle with diode suppression) Operate time, maximum Release time, maximum Bounce time	1.25ms 1.25ms none	1.25ms 1.25ms none	2.50ms 2.50ms none
Breakdown Voltage Coil to contact Across contacts	1000Vrms 1400VDC 1000Vrms 1400VDC	1000Vrms 1400VDC 1000Vrms 1400VDC	1000Vrms 1400VDC 1000Vrms 1400VDC
Insulation Resistance (Ohms)	10 ⁹	10 ⁹	10 ⁹
Capacitance Across open contacts Open contact to coil	5.0pf max 12.0pf max	4.0pf max 10.0pf max	3.0pf max 9.0pf max
Environmental Temperature Total internal relay storage Operating Shock resistance Vibration resistance	-40°C to +105°C -38.8°C to +85°C 30g, 11 ± 1ms, 1/2 Sine Wave 5g, 10 to 500Hz	-40°C to +105°C -38.8°C to +85°C 30g, 11 ± 1ms, 1/2 Sine Wave 5g, 10 to 500Hz	-40°C to +105°C -38.8°C to +85°C 30g, 11 ± 1ms, 1/2 Sine Wave 5g, 10 to 500Hz

Features:

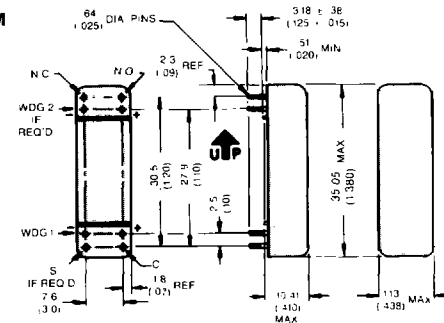
- Maintenance-free long life, for billions of operations.
- Stable contact resistance: ± 2 milliohms variance from original measurement throughout life.
- Electrostatic shielded, latching, and Common Open Time (COT) versions available.
- Versatile contacts; will switch microvolts, nanoampere loads to 2A or 500V loads.
- Fastest high performance wetted contact relays available (1.25ms max timing).
- No contact bounce, no interruption of signal or processing of false signals.
- Excellent input to output isolation.
- Standard nominal coil voltages include 5, 12, 24, and 48VDC.

All characteristics at 23°C

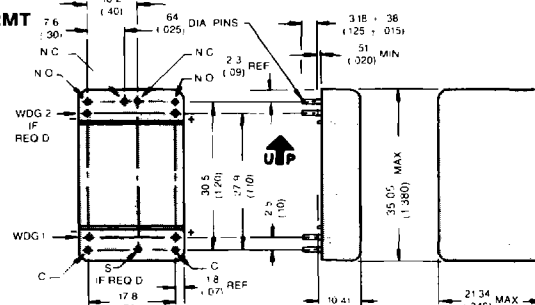
Mechanical Dimensions

All dimensions are measured in millimeters (inches).

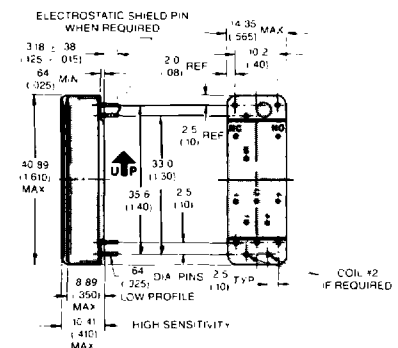
HGWM



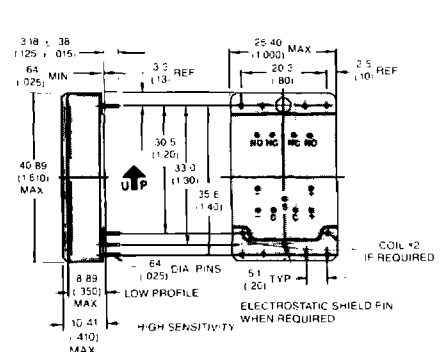
HGW2MT



HGJM HGRM



HGJ2MT HGR2MT



Clare Relays

Part Number	Schematic Contact Form (Bottom View)	Nominal Voltage (VDC)	Coil Resistance (Ohms + / - 10%)	Nominal Input Power (mW)	Must Operate Voltage (VDC)	Must Release Voltage (VDC)	Maximum Voltage (VDC)	Options
1 Form C								
HGJM51111K00*		5	125	200	2.9	0.61	15.0	•Electrostatic shield
HGJM51111P00*		12	685	210	7.1	1.50	35.0	•Bistable latching
HGJM51111T00*		24	2650	217	14.0	3.00	68.0	•Low profile (.350 height)
HGJM51111W00		48	9850	230	29.0	6.00	125.0	•Insulation resistance: 10 ¹¹
2 Form C								
HGJ2MT54211G00*		5	55	455	2.6	0.55	14.0	•Low profile (.350 height)
HGJ2MT54211L00*		12	370	389	6.7	1.40	36.0	•Insulation resistance; 10 ¹¹
HGJ2MT54211P00*		24	1370	420	13.0	2.70	69.0	
With shield, and COT								
1 Form C								
HGRM51111J00		5	70	357	1.8	0.44	11.0	•Bistable latching
HGRM51111N00		12	435	331	4.6	1.10	28.0	•Form D contacts
HGRM51111R00		24	1750	329	8.8	2.20	55.0	
HGRM51111V00		48	6100	378	17.0	4.30	103.0	
2 Form C								
HGR2MT51111F00		5	37	675	2.0	0.50	11.0	•Electrostatic shield
HGR2MT51111K00		12	250	576	5.0	1.25	30.0	•Form D contacts
HGR2MT51111N00		24	870	662	10.0	2.50	56.0	
1 Form C								
HGWM51111K00*		5	117	214	2.9	0.52	11.0	•Electrostatic shield
HGWM51111P00*		12	720	200	7.0	1.30	27.0	•Bistable latching
HGWM51111T00*		24	2730	211	14.0	2.60	52.0	•Form D contacts
HGWM51111W00		48	10000	230	28.0	5.20	100.0	•Insulation resistance; 10 ¹¹
2 Form C								
HGW2MT54111G00		5	56	446	2.9	0.52	11.0	•Electrostatic shield
HGW2MT54111L00		12	392	367	7.0	1.30	28.0	•Form D contacts
HGW2MT54111P00		24	1440	400	14.0	2.60	54.0	•Insulation resistance, 10 ¹¹
With COT								

* Designates standard stocking item for authorized Clare distributors.

Contact the Chicago facility or area sales office for part numbering scheme for available options.