

		
* 5A (10A) switching capability * 10kV impulse withstand voltage (Between coil and contacts) * Highly efficient magnetic circuit for high sensitivity : 0.2W * Extremely small footprint utilizing PCB area	HU1 Relay	

1. Contact Data

Model		HU1 (Standard:5A)	HU1G(High Capacity:7A)
Contact Form		1 Form A	
Contact Resistance		100m ohm at 1A 24VDC	
Contact Material		AgSnO ₂ , AgNi	
Contact Ratings		5A 250VAC, 5A 28VDC	7A 250VAC, 7A 28VDC
Max Switching Voltage		277VAC, 30VDC	
Max Switching Current		7A	10A
Max Switching Power		1,939VA, 210W	2,770VA, 300W
Mechanical		5,000,000 operations	
Electrical Life Expectancy	AgNi	2 x 10 ⁵ ops (at 3A 250VAC) 1 x 10 ⁵ ops (at 5A 250VAC)	1 x 10 ⁵ ops (at 7A 250VAC) 1 x 10 ⁴ ops (at 10A 250VAC)
	AgSnO ₂	1 x 10 ⁵ ops (at 3A 250VAC) 5 x 10 ⁴ ops (at 5A 250VAC)	5 x 10 ⁴ ops (at 7A 250VAC) 1 x 10 ⁴ ops (at 10A 250VAC)

2. General Data

Insulation Resistance		1,000M ohm at 500VDC
Dielectric Strength	Open contacts	1,000VAC (for one minute)
	Contacts and coil	4,000VAC (for one minute)
Surge Voltage between Contacts and coil		10kv (1.2 x 50 micro S)
Operate Time		10ms
Release Time		10ms
Temperature Range		-40 to +85C
Shock Resistance	Functional	98m/s ²
	Destructive	980m/s ²
Vibration Resistance		10Hz to 55Hz, 1.5mm DA
Humidity		98%, +40C
Weight		Approx 3g
Termination		PCB
		Flux proofed, Wash tight
Safety Standard		UL E222977

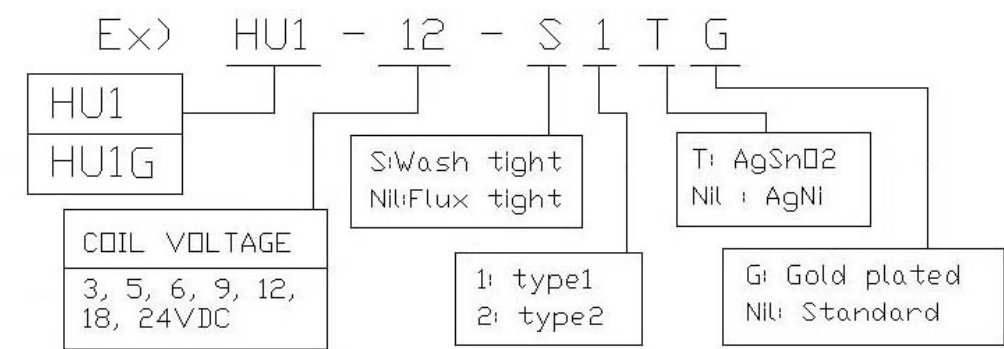
3. Coil Data

at 23C

Nominal Voltage (VDC)	Pick-up Voltage VDC	Drop-out Voltage VDC	Max allowable Voltage VDC	Coil Resistance ±10%(ohm)
3	2.25	0.18	3.90	45
5	3.75	0.25	6.5	125
6	4.5	0.3	7.8	180
9	6.75	0.45	11.7	405
12	9	0.6	15.6	720

18	13.5	0.9	23.4	1,620
24	18	1.2	31.2	2,880

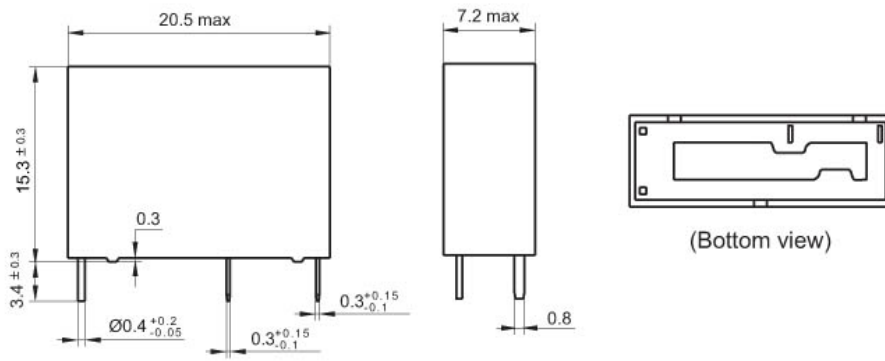
4. Ordering Code



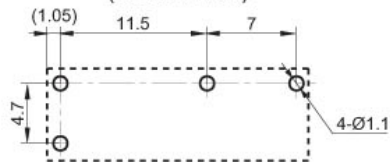
5. Overall And Mounting Dimensions

Type 1

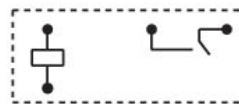
Outline Dimensions



PCB Layout (Bottom view)

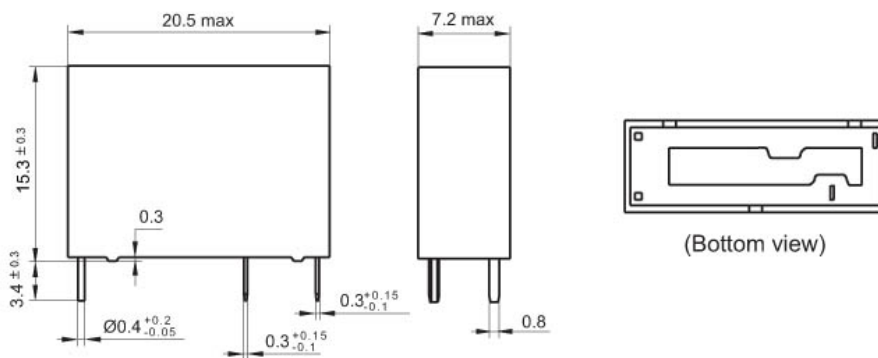


Wiring Diagram (Bottom view)

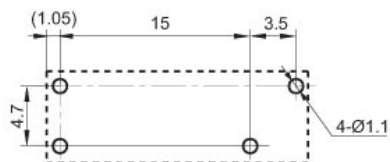


Type 2

Outline Dimensions



PCB Layout (Bottom view)



Wiring Diagram (Bottom view)



6. CHARACTERISTIC CURVES

ENDURANCE CURVE

