

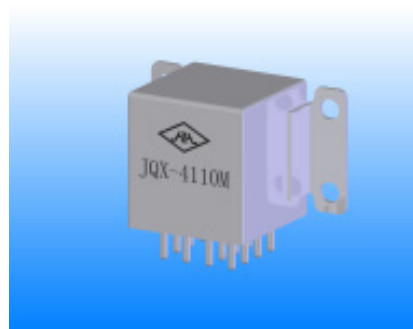
Cubic Inch Permanent Magnet Excited Series Sealed Electromagnetic Relay



JQX-4110M 1 Cubic Inch 4PDT Coil Transient Suppression Sealed Electromagnetic Relay
JQX-4010M 1 Cubic Inch 4PDT Sealed Electromagnetic Relay

Product introduction

- JQX-4110M equipped with coil transient suppression, JQX-4010M without coil transient suppression, both have identical external dimensions, but different ordering markings and corporate standards.
- Permanent magnet excitation balance force structure
- 1 Cubic inches
- 4 PDT
- Load current from 0.1A to 10A
- Anti vibration and shock
- Widely use can to transfer signal and lines in Aerospace and aviation fields
- Adopted military standard: MIL-PRF-83536G



General Characteristics

No.	Item	Performance
1	Cpmtact type	4Z
2	Dimesion	26mm×26mm×26mm(max)(1 Cubic inches)
3	Weigh	≤ 90g
4	Leakage rate	≤ 1×10 ⁻³ Pa·cm ³ /s
5	Internal moisture content	≤ 5000 ppm

Load Characteristics

Load type	Contact Voltage					Life
	28Vd.c.	115Va.c. 400Hz Single phase	115Va.c. 50/60Hz Single phase	115/200Va.c. 400Hz Three phase	115/200Va.c. 50/60Hz Three phase	
Resistive load	10	10	2.5	10	2.5	10×10 ⁴
Inductive load	8	8	-	8	-	2×10 ⁴
Inductive load	-	-	2.5	-	2.5	1×10 ⁴
Motor load	4	4	2.0	4	2.0	10×10 ⁴
Lamp load	2	2	1.0	-	-	10×10 ⁴
Over load	Resistive:28 Vd.c.(0.2s±0.05s)			40 A		50 cycles
Limit	Resistive:28 Vd.c.(0.2s±0.05s)			50 A		50 cycles

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Environment Characteristics

No.	Item		Performance	
1	Environment grade		I	II
2	Temperature range(℃)		-70~+125	
3	Humidity		40℃ ±2℃ 90%~95%	
4	Low atmospheric range(kPa)		4.39	
5	Shock	Acceleration(m/s ²)	980	1960
		Pulse lasting time(ms)	6	3
6	Sin-Vibration	Frequency range(Hz)	10~2000	10~3000
		Acceleration root-mean-square values (m/s ²)	196	294
7	Random Vibration	Acceleration spectral density ((m/s ²) ² /Hz)	30	40
		Acceleration root-mean-square values (m/s ²)	207.1	239.1
8	Acceleration(m/s ²)		490	

Specifications

No.	Item		Performance
1	Coil consumption(W)		≤ 3
2	Contact resistance(Ω)	Initial Value	≤ 0.05
		After life	≤ 0.15
3	Operating time(ms)		≤ 15
4	Releasing time(ms)		≤ 15
5	Bounce time(ms)		≤ 1
6	Insulation resistance(MΩ) Test voltage:500V(1±10)d.c.	Under normal condition	≥ 100
		Under high temperature and high humidity and after life	≥ 50
7	Dielectric withstanding voltage Vr.m.s(50Hz)	Under normal condition	1000
		Under low atmospheric	250
8	Transiently suppressed coil back electromotive force		≤ 42

Coil Characteristics

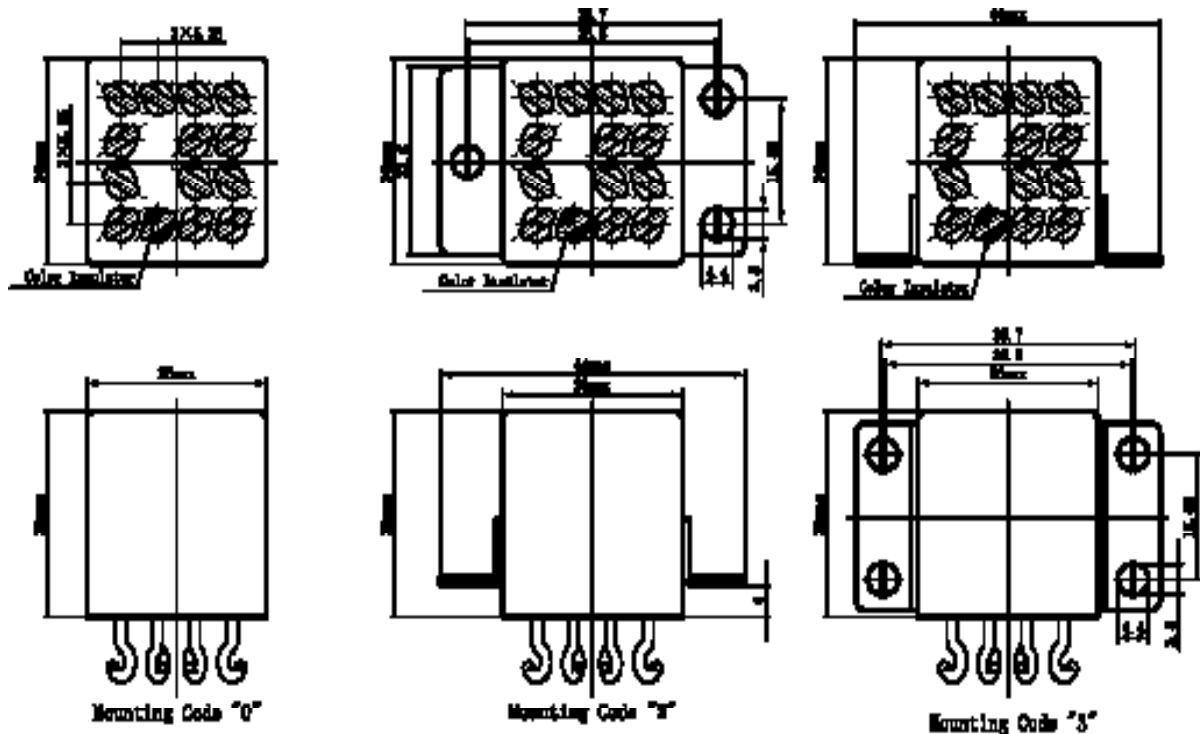
No.	Coil voltage		25℃			All temperature range	
	Nominal (Vd.c.)	Maximum (Vd.c.)	Coil Resistance (1±10%)Ω	Maximun operating voltage (Vd.c.)	Maximun release voltage (Vd.c.)	Maximun operating voltage (Vd.c.)	Minimun drop out voltage (Vd.c.)
028	28.0	29.0	290	15.5	2.00	23.0	1.50

■ Special coil types available upon to request.

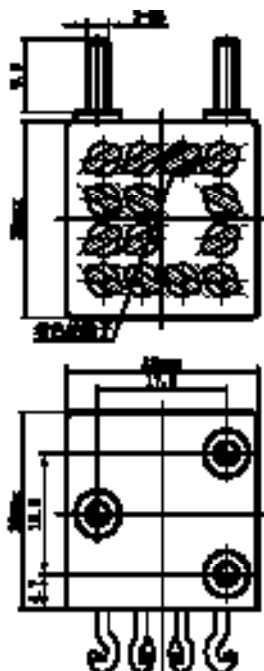
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- ① Type
- ② Part
- ③ Mounting code
- ④ Terminal
- ⑤ Environmental level

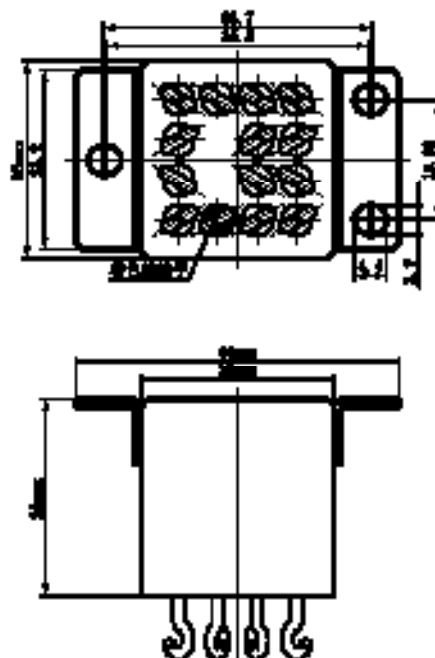
Mounting types



实验方式“4”



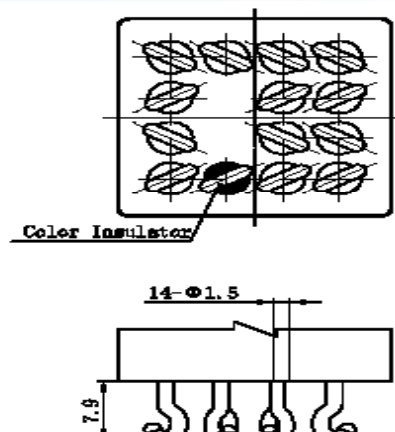
實驗方式 “8”



实施方式 “B”

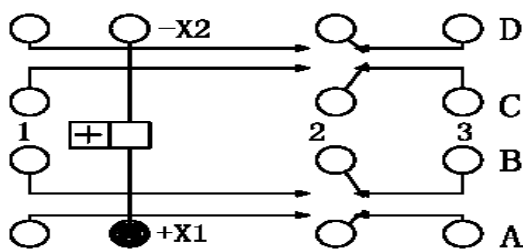
Figure 1 shows the schematic diagram of the test specimen. The top part is a plan view of a rectangular specimen with a grid of 14 circular holes. A vertical line divides the grid into two sections: a left section with 5 holes and a right section with 9 holes. A label 'Color Insulator' points to one of the holes in the left section. The bottom part is a side view of the specimen, which is a rectangular block with four vertical support legs. A dimension line indicates a width of 14-0.1.5 and a height of 6.7.

Pin Form: 1

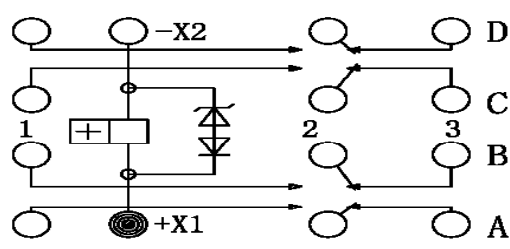


Pin Form: 4

Bottom View



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JQX-4110M