

NRL708A 磁保持继电器 /Magnetic Latching Relay



◆ 特点 Characteristic

- > 体积小，16A/20A 触点切换能力；
- > 线圈功耗小、温升极低；
- > 触点接触电阻小，电接触稳定性好；
- > 抗冲击、抗振动能力强；
- > 外形尺寸：29×12.7×15.7mm；
- > 已通过 UL 认证。
- > Small size, 16A/20A switching capability.
- > Low coil consumption, ultra-low temperature rise.
- > Low contact resistance.
- > Strong anti-shock and anti-vibration capability.
- > Outline size: 29×12.7×15.7mm.
- > UL Approved

◆ 订货标记 Ordering Information

① NRL ② 708A ③ - WX1 ④ - 12 ⑤ - D	①	磁保持继电器代号 Latching Relay
	②	产品型号 Part Number
	③	触点引出端子间距 WX1 为 3.5mm；WX2 为 5.0mm Pins Pitch WX1=3.5mm；WX2=5.0mm
	④	线圈电压 Coil Voltage
	⑤	D 表示双线圈，S 表示单线圈 D= Double Coil；S= Single Coil

◆ 性能 Characteristics

绝缘电阻 Insulation resistance		1000MΩ (500VDC)
介质耐压 Dielectric Strength	触点与线圈间 Between Coil & Contacts	4000VAC 1min
	断开触点间 Between Open Contacts	1000VAC 1min
闭合时间 Operate Time		10msec. Max.
断开时间 Release Time		10msec. Max.
抗冲击 Shock resistance	稳定性 Functional	98m/S ²
	强度 Destructive	980m/S ²
振动 Vibration resistance		10~55Hz 1.5mm
湿度 Humidity		5-85%RH
温度范围 Ambient temperature		-40~+85℃
引出端方式 Termination		PCB
重量 Unit weight		11g
封装形式 Constrution		密封型 Sealed

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◆ 触点参数 Contact Data

触点形式 Contact form	1A/1B
触点材料 Contact material	AgSnO2
接触电阻 Contact resistance(1A 6VDC)	Max: 20mΩ
触点负载 Contact Rating	16A 250VAC、20A 250VAC
最大转换电流 Max. Switching Current	20A
最大转换电压 Max. Switching Voltage	250VAC
最大转换功率 Max. Switching Power	5000VA
机械寿命 Mechanical life	1×10 ⁶
电气寿命 Electrical life (电气阻性/通1s、断9s (Resistive/1s on、9s off))	16A 1×10 ⁵ 20A 2×10 ⁴

◆ 线圈 Coil

线圈功耗 Coil power	单线圈：0.5W 双线圈：1.0W Single coil: 0.5W Double coil: 1.0W
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◆ 线圈参数 Coil Data

额定电压 (VDC) Rated Voltage	动作电压 (VDC) Pick-up voltage	脉冲宽度 (ms) Pulse Duration	线圈电阻 (Ω) Coil Resistance
单线圈 Single coil			
5	≤ 3.75	≥ 50	50±10%
9	≤ 6.75	≥ 50	162±10%
12	≤ 9	≥ 50	288±10%
24	≤ 18	≥ 50	1152±10%
双线圈 Double coil			
5	≤ 3.75	≥ 50	2×25±10%
9	≤ 6.75	≥ 50	2×81±10%
12	≤ 9	≥ 50	2×144±10%
24	≤ 18	≥ 50	2×576±10%

备注：如需其它额定电压，可特殊定货。
Note: Special ordering for other coil voltage.

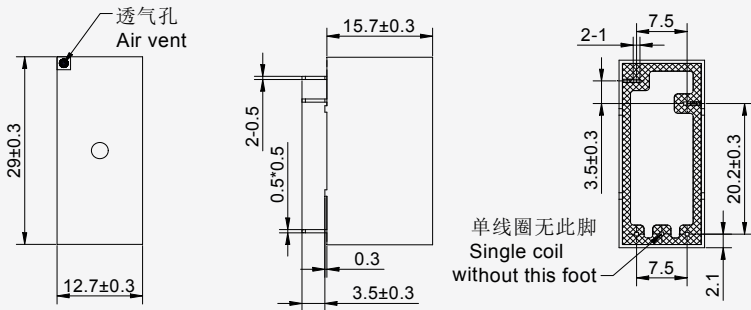
◆ 典型应用 Typical Application

- 1) 主要用于 IC 卡预付费电表，集中抄表系统；
Prepayment Energy Meter; AMR System;
- 2) 也用于复合开关、家电和自动控制装置。
Compound Switch; Automatic Control System.

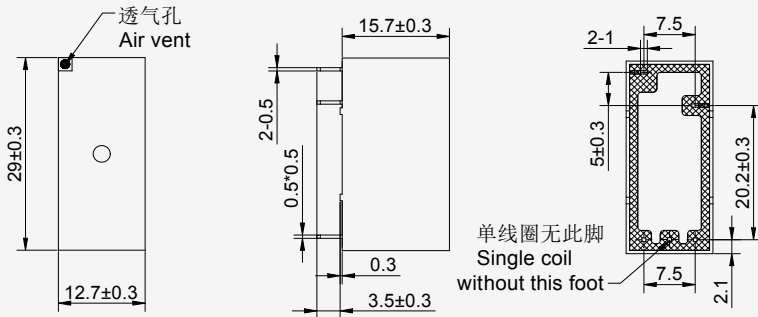
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◆ 尺寸图 Dimensions(mm)/ 接线图 Circuit Diagram

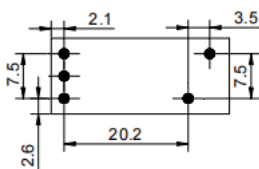
WX1:



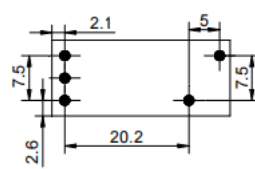
WX2:



WX1型



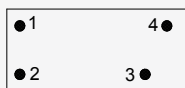
WX2型



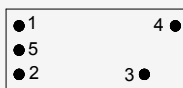
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◆ 标准极性图 (Standard polarity diagram)

单线圈Single coil



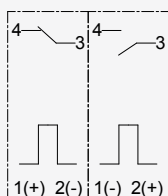
双线圈Double coil



正极性Positive polarity

常开型1 Form A

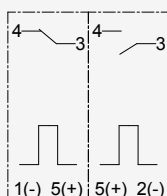
单线圈Single coil



动作
set

复归
reset

双线圈Double coil

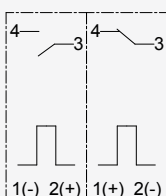


动作
set

复归
reset

常闭型1 Form B

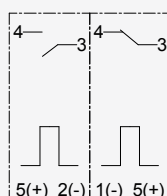
单线圈Single coil



动作
set

复归
reset

双线圈Double coil



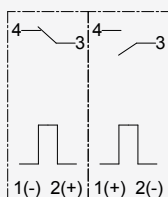
动作
set

复归
reset

反极性Reverse polarity

常开型1 Form A

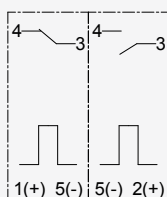
单线圈Single coil



动作
set

复归
reset

双线圈Double coil

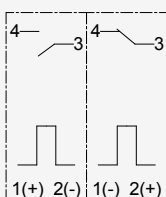


动作
set

复归
reset

常闭型1 Form B

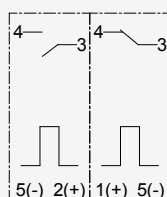
单线圈Single coil



动作
set

复归
reset

双线圈Double coil



动作
set

复归
reset