

FEATURES特点

- Compact lightweight structure.
简洁轻形材质结构。
- High current contact capacity (20A Carrying Current)
大容量 (20安培接点负载)
- Single and twin relay are both available.
单颗和双颗合并继电器可供选择



用途：汽车控制盒(报警器系统、自动门锁系统)、雨刮

CONTACT RATING 接点参数

Contact Form 接点形式	1C SPDT
Rating Load(Resistive)额定负载(阻性)	20A/14VDC
Max. Switching Power最大切换功率	280W
Max. Switching Voltage最大切换电压	14VDC
Max. Switching Current最大切换电流	25A
Min. Switching Current/Voltage 最小切换电流/电压	100mA 5VDC
Contact Rating Current接点负载电流	20A
Contact Material接点材质	Ag Alloy银合金

CHARACTERISTICS 性能参数

Electrical Life 电气寿命	1 × 10 ⁵	
Mechanical Life机械寿命	1 × 10 ⁷	
Insulation Resistance绝缘阻抗	Min. 100MΩ 500VDC	
Contact Resistance(Initial)接触电阻	≤ 100mΩ (6VDC 1A)	
Operate Time 动作时间	≤ 10ms	
Release Time 开放时间	≤ 5ms	
Initial Dielectric Strength 耐压	between open contacts开放接点间: 50/60Hz 500VAC 1min. between contacts and coil line圈接点间: 50/60Hz 1000VAC 1min.	
Vibration Resistance 耐振动	Malfunction: 误动作:	10 ~ 55Hz Amplitude振幅 1.5mm
	Damage limits: 耐久:	10 ~ 55Hz Amplitude振幅 1.5mm
Shock Resistance 耐冲击	Malfunction: 误动作:	10G
	Damage limits: 耐久:	100G
Ambient Temperature环境温度	-40°C ~ +85°C (No freezing 无结冰)	
Relative Humidity相对湿度	85% at 40°C	
Unit Weight单位重量	约Approx. 6g	

ORDERING INFORMATION 型号代码说明

964 T A - 1C - 12 D S
 1 2 3 4 5 6 Z

- | | |
|---|---|
| <p>1. Model Number 型号</p> <p>2. Relay Type 继电器形式
 Nil = General Type 普通型
 T = Twin Relay with Length Cover
 双颗继电器在同外盖内</p> <p>3. Contact Gap 接点间隙
 Nil = General Contact Gap Type 普通接点间隙型
 A = Wide Contact Gap Type 宽接点间隙型</p> | <p>4. Contact Arrangement 接点形式
 1C = 1 Form C 1组转换</p> <p>5. Coil Voltage. 线圈电压
 5、6、9、12、24VDC</p> <p>6. Coil Type 线圈形式
 D=DC 直流</p> <p>7. Enclosure 密封形式
 S = Sealed Type 密封型</p> |
|---|---|

COIL RATINGS (at 20°C) 线圈额定值 (在20°C)

COIL TYPE 线圈形式	Coil Nominal Voltage 线圈额定电压 (V)	Coil Resistance 线圈阻抗 ($\Omega \pm 10\%$)	Pick-Up Voltage 动作电压(V) (Max)	Drop-Out Voltage 开放电压(V) (Min)	Nominal Current 额定电流 (mA)
Standard Coils 标准线圈 Contact gap 接点间隙 0.3mm (abt. 0.6W)	5	42	3.0	0.5	119
	6	60	3.6	0.6	100
	9	135	5.4	0.9	66.7
	12	240	7.2	1.2	50
	24	960	14.4	2.4	25
A Type Coils A 型线圈 Contact Gap 接点间隙 0.6mm (abt. 0.8W)	5	31	3.0	0.5	161
	6	45	3.6	0.6	133.4
	9	100	5.4	0.9	90
	12	180	7.2	1.2	66.7
	24	720	14.4	2.4	33.3

* Max Continuous Voltage at 20°C: 110% of Coil Normal Voltage.
 最大使用电压在20°C: 线额定电压的110%

OUTLINE DIMENSIONS 外部尺寸

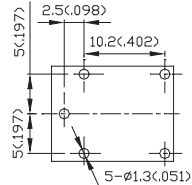
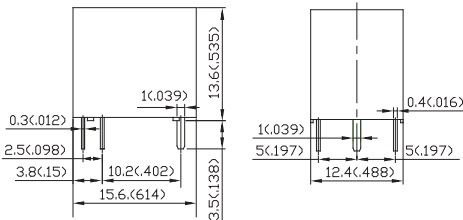
UNIT: mm(inch) 单位: 毫米(英寸)

General Type 普通型

Dimensions 尺寸

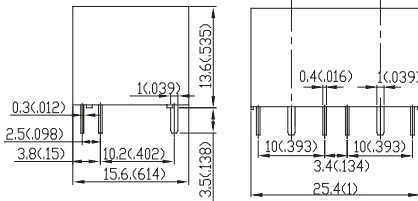
Internal Connections 接线图
(Bottom View 底视图)

Drilling Plan 孔位图
(Bottom View 底视图)

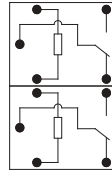


T Type T 型

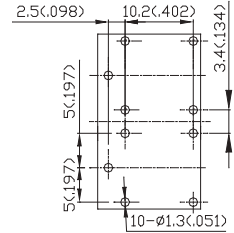
Dimensions尺寸



Internal Connections接线图
(Bottom View底视图)

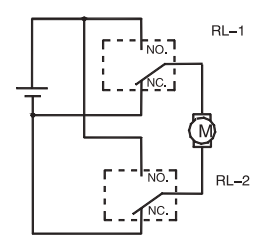
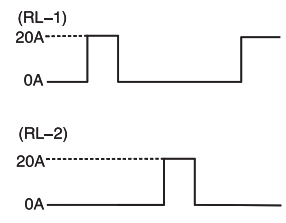
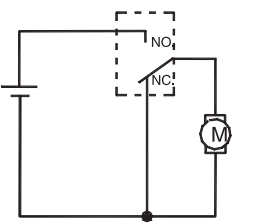
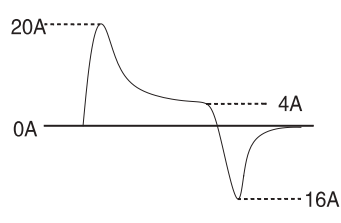


Drilling Plan孔位图
(Bottom View底视图)



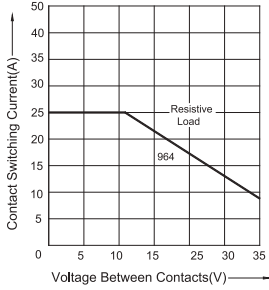
REMARK: Dimensions $\leq 5\text{mm} \pm 0.2\text{mm}$, $> 5\text{mm} \pm 0.3\text{mm}$, the tolerance of PCB thru hole: $+0.2\text{mm}$
备注: 尺寸公差 $\leq 5\text{mm} \pm 0.2\text{mm}$, $> 5\text{mm} \pm 0.3\text{mm}$, 印刷电路板孔 $+0.2\text{mm}$

LIFE TEST (EXAMPLE) 寿命测试 (范例)

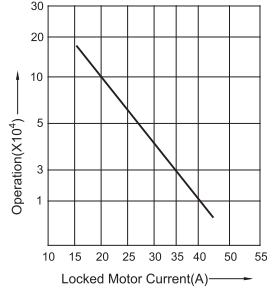
Test Item测试项目	Test Circuit测试回路	Current Wave form电流波形
14VDC-20A motor lock 200,000 operation Minimum 14VDC-20A 电机锁定 最少 200,000次动作		 <p>(RL-1) 20A 0A</p> <p>(RL-2) 20A 0A</p>
14VDC-20A motor free 400,000 operation Minimum 14VDC-20A 电机开放 最少400,000次动作		 <p>20A 0A 4A 16A</p>

964 Reference Data 参考资料

Max.Break Capacity

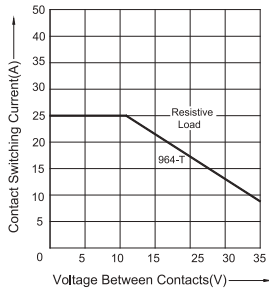


Life Curves



964-T Reference Data 参考资料

Max.Break Capacity



Life Curves

