

Product Specification Sheet

制图

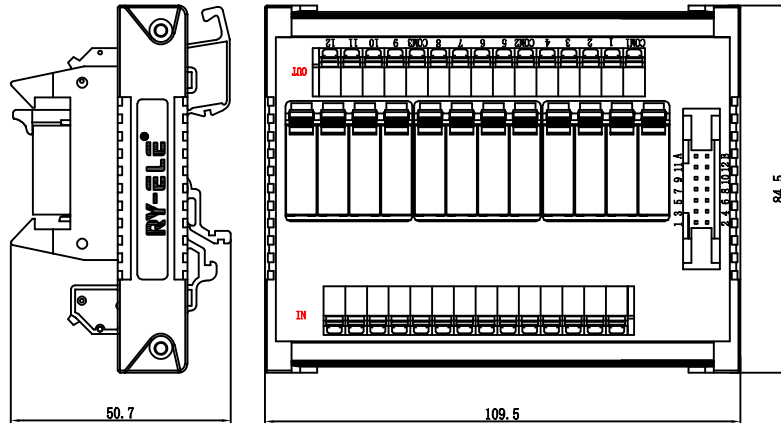
李田田
2026.2

审核

董光周
26.2.28
543
26.2.28.

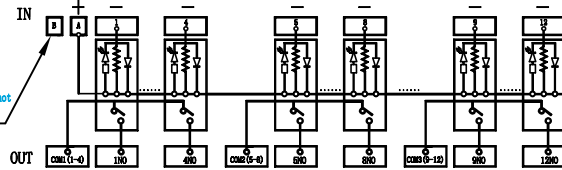
批准

冯前峰 2020.12



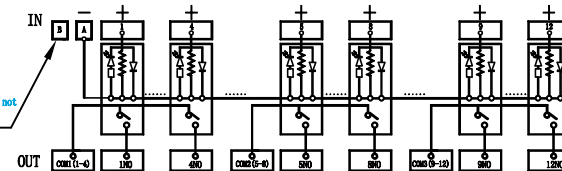
低电平输入控制: $NPN=A+(1-12)-$
Low level input control: $NPN=A+(1-12)-$

AB不是同一个点
B点无需接线
AB is not the same point, point B does not
require wiring



高电平输入控制: $PNP=A-(1-12)+$
High level input control: $PNP=A-(1-12)+$

AB不是同一个点
B点无需接线
AB is not the same point, point B does not
require wiring



变更说明 Change description	更改人 Change person	更改日期 Change date	备注 Remarks
/	/	/	/
/	/	/	/

性能参数 (电参数)	
Performance parameters (Electrical parameters)	
接触电阻*1 Contact resistance	100mΩ 以下 Below 100mΩ
动作时间 Action time	10ms 以下 Below 10ms
复位时间 Reset time	10ms 以下 Below 10ms
接触电阻*2 Contact resistance	1000mΩ 以上 Above 1000mΩ
耐压 Withstand voltage	AC400V/50/60Hz 1min AC400V/50/60Hz 1min
额定电压 Rated voltage	AC100V/50/60Hz 1min AC100V/50/60Hz 1min
额定电压 Rated voltage	100V 100V
寿命 Lifetime	耐久 Durable
动作寿命 Action life	10 ⁷ 回/10ms 半寿命, 0.75ms (双线圈: 1.5ms) 10 ⁷ cycles/10ms, semi-life, 0.75ms (dual coil: 1.5ms)
冲击 Shock	动作寿命 Action life
	1000m/s ² 1000m/s ²
寿命 Lifetime	机械 Mechanical
	300万次以上 Over 3 million times
电气 Electrical	标准型 (G20B-1A, G20B-14A) Basic type (G20B-1A, G20B-14A)
	20万次以上AC125V, 3A Over 20,000 times AC125V, 3A
	20万次以上DC250V, 3A Over 20,000 times DC250V, 3A
	高容量型 (G20B-1A, G20B-14A-E) High capacity model (G20B-1A, G20B-14A-E)
	20万次以上AC125V, 3A Over 20,000 times AC125V, 3A
	20万次以上DC250V, 3A Over 20,000 times DC250V, 3A
	(额定电压 开关频率1000次/分) (Rated voltage switch frequency 1000 times/min)
耐冲击电压 (冲击电压) Withstand voltage (Surge voltage)	DC5V 10ms DC5V 10ms
使用环境温度 Ambient temperature	-40~+85℃ (无结冰、无凝露) -40~85°C (no frost, no condensation)
使用环境温度 Ambient temperature	5~55℃ 5~55°C

①1.测量条件: 根据电压下降法, 在DC5V 1A的条件下
 ②2. Measurement conditions: According to the voltage drop method, under the condition of DC5V 1A
 ③3.测量条件: 用DC50V兆欧表测量, 位置与耐压测试时相同。
 ④4. Measurement conditions: Measure with a DC500V megohmmeter at the same position as when measuring the withstand voltage.
 ⑤5.其值为开关频率在120次/min时的值。
 ⑥6. This value is the value when the switching frequency is 120 times/min.

性能参数 (模组)		
Performance parameters (module)		
安装方式 Installation method	卡扣导轨式安装 Buckle rail installation	
外观材料 Appearance material	牛角插 Bull horn insertion	PBT (RoHS), V1级阻燃 PBT (RoHS), V1 level flame retardant
	接触片 Contact piece	高精密铜, 表面镀锡 High-precision copper with copper tin plating on the surface
	扳扣 Pulling buckle	POM+GF30%
	焊接插座 welding socket	PA6 (RoHS), V2级阻燃 PA6 (RoHS), V2 level flame retardant
	端子 terminal	PA66 (RoHS), V2级阻燃 PA66 (RoHS), V2 level flame retardant
	底板 baseplate	PA6 (RoHS), V2级阻燃 PA6 (RoHS), V2 level flame retardant
	边框 border	PA6+GF20 (RoRS)
	线路板 circuit board	Epoxy 1.6t
接线形式 Wiring form	直插式卡簧接线, 使用 0.5-1mm² 国际线 Direct insertion card spring wiring, using 0.5-1mm² national standard line	
卡簧拉力 Card spring tension	100kgf.cm	
工作环境温度 Ambient Temperature	-40℃~+80℃, 非真空状态, 不结冰情况下 -40℃~+80℃, under non vacuum and non icing conditions	
工作环境湿度 Working environment humidity	35~85%RH	
贮存环境温度 Storage environment temperature	包装完好情况下, -40℃~+55℃ Under intact packaging, -40℃ to +55℃	
贮存环境湿度 Storage environment humidity	包装完好情况下, 45~90%RH When the packaging is intact, 45~90% RH	
额定电压 rated voltage	250VAC/24VDC	
额定电流 rated current	5A	
绝缘电阻 insulation resistance	≥1000MΩ (500VDC)	
耐电压 Withstand Voltage	AC500V 1min	
耐振性 Resistance to vibration	XYZ 三向, 60Hz, 振幅2mm, 10小时 (每2小时观察记录) XYZ three-way, 60Hz, amplitude 2mm, 10 hours (observe and record every 2 hours)	
产品跌落 Product anti fall	底座空直落1米, 3次, 能正常工作 The base has dropped vertically by 1 meter for 3 times and can work normally	
包装跌落 Packaging Falling	600mm高度连续跌落4次, 产品无损坏 4 consecutive drops from a height of 600mm without any damage to the product	
阻抗未注一般公差 The drawing does not indicate general tolerances	按GB/T 1804-m 标准执行。 Follow the GB/T 1804-m standard.	

RY MD2 / T A 1H 12- D24
① ② ③ ④ ⑤ ⑥ ⑦

- | | | |
|---|--|---|
| 1. RY: 企业代号 | resistance to vibration | XYZ three-way, 60Hz, amplitude 2mm, 10 hours (observe and record every 2 hours) |
| 1. XT: Enterprise Code | 产品防跌落 | 底座垂直跌落1米, 3次, 能正常工作 |
| 2. MD2: G5NB-1A-E继电器模组系列 | Product anti fall | The base has dropped vertically by 1 meter for 3 times and can work normally |
| 2. MD2: G5NB-1A-E Relay Module Series | 包装跌落 | 600mm高度连续跌落4次, 产品无损坏 |
| 3. T: 接线方式直插式 | Packaging falling | 4 consecutive drops from a height of 600mm without any damage to the product |
| 3. T: Direct insertion wiring method | 图纸未注一般公差 | 按GB/T 1804-m 标准执行。 |
| 4. A: 牛角插 (配有 12, 16, 32) | The drawing does not indicate general tolerances | Follow the GB/T 1804-m standard. |
| 4. A: Bull horn plug (equipped with 12, 16, 32) | | |
| 5. 1H: 一组常开 | | |
| 5. 1H: A set of normally open | | |
| 6. 12: 12路 | | |
| 6. 12: Route 12 | | |
| 7. D24: 电压24VDC | | |
| 7. D24: Voltage 24VDC | | |

