

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

位数 digit	2	4	6	8	10	12	16	32
长度L mm length	40.3	76.8	113.3	149.8	186.3	222.8	295.8	587.8

pick up line image	
接线图	

制图

李加峰
2026.3

审核

黄光国
26.3

SW
26.3

批准

冯前峰
2026.3

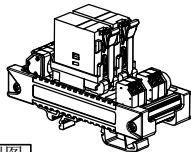
接线方式说明 pick up line square formula say bright	低电平输入控制:NPN=A+ J(1,2)- Low level input control: NPN=A+ J(1,2)-	高电平输入控制:PNP=A- J(1,2)+ High level input control: PNP=A- J(1,2)+
当输入端A接正极电压, J(1,2)接负极电压 此接线方式为低电平(NPN)功能 同一个模组中,所有的接线端A 都是同一个接线端 J1,J2为对应的继电器控制端 When input terminal A is connected to a positive voltage, J(1,2) connected to negative voltage This wiring method is for low level (NPN) function All terminals A in the same module They are all the same terminal J1 and J2 are the corresponding relay control terminals		当输入端A接负极电压, J(1,2)接正极电压 此接线方式为高电平(PNP)功能 同一个模组中,所有的接线端A 都是同一个接线端 J1,J2为对应的继电器控制端 When input terminal A is connected to a negative voltage, J(1,2) connected to positive voltage This wiring method is for high level (PNP) function All terminals A in the same module They are all the same terminal J1 and J2 are the corresponding relay control terminals

性能参数 (继电器) Performance parameters (Relay)	
触点形式 Contact form	1NO/1NC
接触电阻 Contact resistance	≤50mΩ
触点材料 Contact material	Ag50Zn
触点负载 Contact load	12A
最大切换电压 Maximum switching voltage	250VAC/30VDC
最大切换电流 Maximum switching current	12A
最大切换功率 Maximum switching power	3000VA/360W
机械耐久性 Mechanical durability	DC线圈: 2000万次以上 AC线圈: 2000万次以上
绝缘电阻 Insulation resistance	≥1000MΩ (500VDC)
介电耐压 Dielectric withstand	同极触点间 1000VAC 1min 异极触点间 3000VAC 1min
电器寿命 切换频率: 1800次/小时 Electrical lifespan Switching frequency: 1800 times/hour	DC负载: 10万次以上 AC负载: 20万次以上
动作时间 Action time	≤15ms
释放时间 Release time	≤10ms
线圈升温 Coil heating w	≤85K

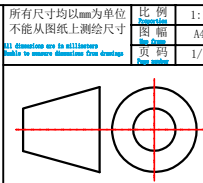
性能参数 (模组表 2.1) Performance parameters (Module Table 2.1)	
安装方式 Installation method	卡扣导轨安装 Rail-mount installation
外观材料 Appearance material	接触片 Contact piece PA6 (RoHS), V2级阻燃 端子 Terminal PA66 (RoHS), V2级阻燃 底座 Base PA6 (RoHS), V2级阻燃 边板 Edge plate PA6+GF30 (RoHS) 起拔结构 Release structure PA6+PA66 (RoHS)
接线形式 Wiring form	直通式卡簧接线, 使用0.5-1mm² 国标线 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 Ambient 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 Under intact packaging, 45% to 90% RH
额定参数 rated parameters	12A 250VAC/30VDC
接触电阻 Contact resistance	≤100mΩ
绝缘电阻 Insulation resistance	≥1000MΩ (500VDC)
抗电强度 (工频耐压) Withstand voltage (50Hz)	相邻端子之间: 1000VAC, 1min (漏电流≤1mA) Between adjacent terminals: 1000VAC, 1min (leakage current ≤1mA)
耐振性 Resistance to vibration	XZ三向, 60Hz, 振幅3mm, 10次/时(每2小时测试1次) XYZ three-way, 60Hz, amplitude 3mm, 10 times/hour (test every 2 hours)
产品防跌落 Product anti-fall	底座垂直跌落1米, 3次, 能正常工作 The base can drop 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
耐冲击性 Resistance to impact	各部位能承受冲击力10g, 能正常工作 All parts can withstand an impact force of 10g and work normally
低温试验 Low temperature test	-40℃, 96h, 接触电阻≤200mΩ -40℃, 96 hours, contact resistance ≤200mΩ
高温试验 High temperature test	80℃, 96h, 接触电阻≤200mΩ 80℃, 96 hours, contact resistance ≤200mΩ
高低温冲击试验 High and low temperature shock test	-40~+85℃, 85%RH, 40min/循环, 50个循环, 接触电阻≤200mΩ -40~+85℃, 85% RH, 40min/cycle, 50 cycles, contact resistance ≤200mΩ
图纸未注一般公差 General tolerance not noted on drawing	按照GB/T 1804-m 标准执行 Follow the GB/T 1804-m standard

$$\frac{RY}{1} \frac{MD}{2} \frac{2}{3} - \frac{1Z}{4} \frac{1S}{5} - \frac{T}{6} / \frac{DC24}{7}$$

1. RY: 企业代号
1. RY: Enterprise Code
2. MD: 继电器模组系列
2. MD: Relay module series
3. 2, 4, 6, 8, 10, 12, 14等...
3. 2, 4, 6, 8, 10, 12, 14, etc...
4. 1Z: 1座转接
4. 1Z: 1 group conversion
5. 1S: RY1S-CL (继电器型号选型, 和泉、施耐德、荣越RY-ELE)
5. 1S: RY1S-CL (Relay model selection, Omron, Schneider, Rongyue RY-ELE)
6. T: 直通式接线
6. T: Direct connection wiring
7. DC24: DC24=24VDC DC12=12VDC
7. DC24: DC24=24VDC DC12=12VDC
1. 12V, 24V, 48V, 110V, 220V, 240V



轴测图
Isometric drawing



所有尺寸均以mm为单位
不能从图纸上测绘尺寸
All dimensions are in millimeters
Do not measure dimensions from drawings

比例 1:1
图幅 A4
图例 页码 1/1

RY-ELE®
浙江荣越电气有限公司
Zhejiang Rongyue Electric Co., Ltd

产品名称 Product Name	继电器模块 Relay module
产品型号 Product drawing number	RYMD2-1Z1S-T/DC24