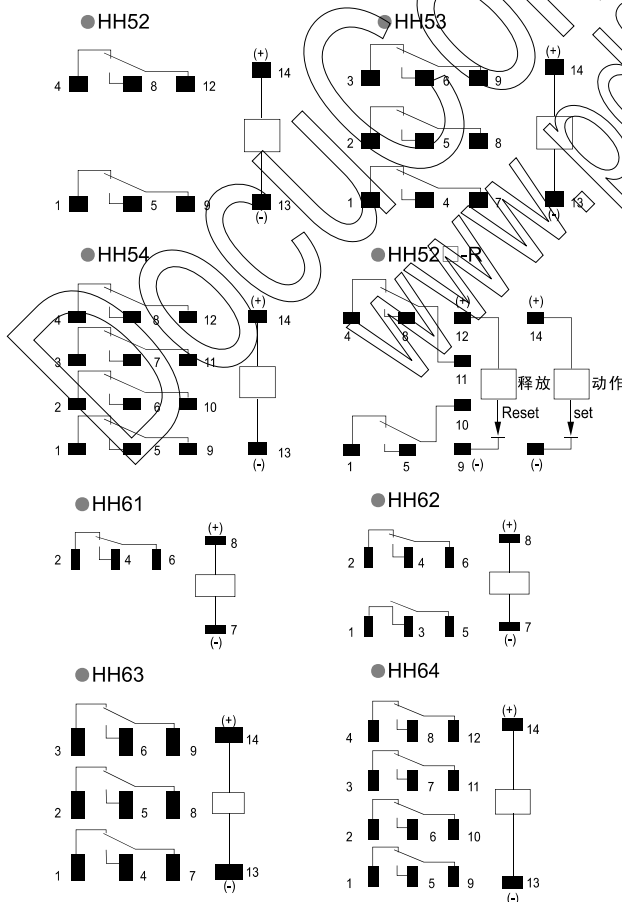


HH系列小型控制继电器是引进日本富士电机株式会社全套专有制造技术生产的高可靠性继电器，具有体积小、重量轻、开闭容量大、可靠性高、寿命长等特点，适用于交流50Hz或60Hz，电压至240V，直流电压至110V的控制电路，供电子设备、通讯设备、电子计算机控制设备、自动化控制装置等切换电路及扩大控制范围之用。产品符合GB14048标准以及IEC60947、IEC60255和日本JIS标准。

HH series relay is a highly dependable miniature general-purpose relay, which is produced meticulously by our factory, apply the know-how technology introduced from Fuji Electric Co., Ltd. in Japan. It has specialties of small size, light weight, large make and break capacity, highly reliability, long life, etc. It is suitable for control circuits with frequency 50Hz/60Hz, rated voltage up to 240VAC or 110VDC. It can be widely used for change circuit and extend control range for electric instrument, communication apparatus, computer control equipment, automatic control unit, etc. The products are in compliance with the standard of GB14048 and IEC60947, IEC60255 and JIS.

接线图 Wiring diagrams



(端子方向观测Bottom view)

型号含义 Type number nomenclature

HH□□□-□

型式特点 Versions

无标志: 标准型
No code: Standard type
F: 带浪涌抑制回路

With surge suppression circuit

L: 带发光二级管

With indicator (LED)

R: 磁保持型

Dual coil magnetic latching

安装方式 Mounting method

P: 插拔式 Plug-in

B: 印制板焊装式

Printed circuit board

S: 法兰式 Flange

E: 螺钉固定式 Stud-bolt

触点数量 Contact arrangement

1:1 转换 SPDT 后缀代号

2:2 转换 2PDT Suffix

3:3 转换 3PDT a: 常开NC

4:4 转换 4PDT b: 常闭NO

设计序号 Design No.

5: 控制型 Control type

6: 功率型 Power type

控制继电器 Relay

特点 Feature

- 体积小、重量轻。
- 规格品种齐全，除基型产品外，有带浪涌抑制回路型、带动作指示灯型、磁保持型等。
- 采用电性能优异的触点材料和合理的结构设计，提高了触点开闭容量，最大工作电流可达5A(HH5)、15A(HH6)。安装方式有插拔式、印制板焊装式、法兰式、螺钉固定式等，用户可任意选择。
- 采用合理的设计、先进的工艺、优质的材料，保证了接触可靠性和较长的使用寿命，并且消除了交流噪音。
- 产品符合国际标准，并按国际安全标准设计和生产。
- Small size, light weight.
- Variety of versions, which is standard, with surge suppression circuit, with indicator, dual coil magnetic latching, etc.
- Contact continuous maximal current ratings are 5A of HH5, and 15A of HH6.
- Many mounting method are available for plug in, printed circuit board, stud-bolt, etc.
- The products are in compliance with the standard of IEC and JIS.

小型控制继电器 MINIATURE CONTROL RELAY

规格品种 Specifications

型式 Type	继电器型号型式 Relay type				约定发热电流 Rated thermal current	额定电压 (Us) Rated voltage
	插拔式 Plug-in	印制板焊装式 P.C.board	法兰式 Flange	螺钉固定式 Stud-bolt		
基型 Standard	HH52P	HH52B	HH52S	HH52E	5A	AC6,12,24,48 110,220V DC6,12,24,48 110V
	HH53P	HH53B	HH53S	HH53E		
	HH54P	HH54B	HH54S	HH54E		
	HH61P		HH61S		3A	
	HH62P	HH62B	HH62S		15A	
	HH63P				10A	
带动作指示灯 With indicator	HH52P-L	HH52B-L		HH52E-L	5A	AC24,48,110, 220V DC24,48,110V
	HH53P-L	HH53B-L		HH53E-L		
	HH54P-L	HH54B-L		HH54E-L	3A	
	HH62P-L	HH62B-L		HH62E-L	10A	
	HH63P-L					
	HH64P-L					
带浪涌抑制回路 With surge suppression circuit	HH52P-F	HH52B-F	HH52S-F	HH52E-F	5A	DC24,48,110V
	HH53P-F	HH53B-F	HH53S-F	HH53E-F		
	HH54P-F	HH54B-F	HH54S-F	HH54E-F		
	HH62P-F	HH62B-F	HH62S-F	HH62E-F	3A	
	HH63P-F				10A	
	HH64P-F					
带浪涌抑制回路 及动作指示灯 With surge suppression circuit and indicator	HH52P-FL	HH52B-FL		HH52E-FL	5A	DC24,48,110V
	HH53P-FL	HH53B-FL		HH53E-FL		
	HH54P-FL	HH54B-FL		HH54E-FL	3A	
	HH62P-FL	HH62B-FL		HH62E-FL	10A	
	HH63P-FL					
	HH64P-FL	HH64B-FL				
磁保持型 Dual coil magnetic Latching	HH52P-R	HH52B-R	HH52S-R		3A	AC6,12,24,48 110V DC6,12,24,48V

注：其它规格产品需特殊订货生产。

Note: Manufactured of the others on request.

HH52、HH53、HH54、HH62通过UL安全认证。

HH全系列通过TUV安全认证。

HH全系列通过CCC认证。

UL 认证触点容量 UL Contact ratings

型号 Type	负载电压 Load voltage	负载 Load			备注 Note
		单相电动机 Motor control	电阻负载 General purpose	电感负载 Pilot duty	
HH52	240VAC	1/4hp	5A		异极性 Opposite
	120VAC	(1/6hp)	(5A)	1.5A	
HH53	120VDC		(0.3A)	0.2A(15ms)	
	30VDC		5A	(2A)(15ms)	
HH54	240VAC	1/4hp	3A		异极性 Opposite
	120VAC	(1/10hp)	(3A)	1A	
	120VDC		(0.3A)	0.2A(15ms)	
	30VDC		3A	(2A)(15ms)	
HH62	240VAC	1hp	10A		异极性 Opposite
	120VAC	(1/3hp)	(10A)	1.5A	
	120VDC		(3A)	0.2A(15ms)	
	30VDC		8A	(2A)(15ms)	
TP5	250VAC		5A		
TP6	250VAC		10A		

注：螺钉固定式的螺钉不接地。

Note: Suitable for models with suffix E when mounting screw is isolated from ground

技术数据 Technical data

型号 Type	HH52,53,54	HH52□-R	HH61.62	HH63	HH64
动作电压 Pick-up voltage	DC: 不大于 75%Us DC: 75% of rated voltage		AC: 不大于 80%Us AC: 80% of rated voltage		
释放电压 Drop-out voltage	AC	不小于 30%Us 30% of rated voltage	不小于 75%Us 75% of rated voltage	不小于 30%Us 30% of rated voltage	
	DC	不小于 10%Us 10% of rated voltage		不小于 10%Us 10% of rated voltage	
最大连续工作电压 Max.supply voltage	110%Us 110% of rated voltage				
动作时间 Operating time	≤20ms	≤30ms	≤20ms	≤20ms	
释放时间 Release time	≤20ms	≤30ms	≤20ms	≤20ms	
额定功耗 Power consumption	AC: ≤1.8VA(50Hz) ≤1.5VA(60Hz) DC: ≤1.2W	动作线圈 Set coil: 1VA/1.2W 复位线圈 Reset coil: 0.4VA/0.5W	AC: ≤1.8VA(50Hz) ≤1.5VA(60Hz) DC: ≤1.2W	AC: ≤2.5VA(50Hz) ≤2VA(60Hz) DC: ≤1.8W	AC: ≤3VA(50Hz) ≤2.8VA(60Hz) DC: ≤1.8W
额定绝缘电压 Rated insulation voltage	250V				
开闭频率 Operating cycle	30cpm				
环境温度 Temperature range	-10~+40°C		-25~+55°C		
接触电阻 Contact resistance	< 50mΩ (DC6V, 1A) (初始值 Before use)				
绝缘电阻 Insulation resistance	> 100MΩ				
工作耐压 Dielectric strength	同组触点间: AC1000V 1min 1000VAC 1min between open contacts				
	电器回路间: AC2000V 1min 2000VAC 1min between all other mutually insulated parts				
振动 Vibration	10~55Hz 1min(6G) 振动稳定性及振动强度 Malfunction durability and mechanical durability				
冲击 Shock	200m/s ² 冲击稳定性 Malfunction durability				
	100m/s ² 冲击强度 Malfunction durability				
机械寿命 Mechanical life	5 × 10 ⁶				
电寿命 Electrical life	AC-12: 2 × 10 ⁵	AC-12: 12 × 10 ⁴	AC-12: 2 × 10 ⁵	AC-12: 2 × 10 ⁵	
	AC-15: 32 × 10 ⁴	AC-15: 26 × 10 ⁴	AC-15: 2 × 10 ⁵	AC-15: 2 × 10 ⁵	
	DC-12: 5 × 10 ⁵	DC-12: 26 × 10 ⁴	DC-12: 2 × 10 ⁵	DC-12: 2 × 10 ⁵	
	DC-13: 15 × 10 ⁴	DC-13: 7 × 10 ⁴	DC-13: 1 × 10 ⁵	DC-13: 1 × 10 ⁵	
产品重量 Net weight	33g		34g	HH63: 52g HH64: 70g	

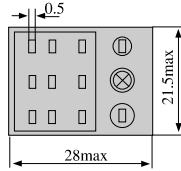
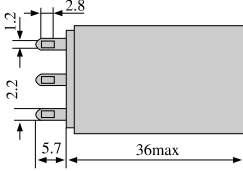
触点控制容量 Contact ratings

型号 Type	HH52,53	HH54	HH61	HH62,63,64
最大工作电压 Max.operating voltage	AC250V DC125V	AC250V DC125V	AC250V DC125V	AC250V DC125V
最大工作电流 Max.operating current	5A	3A	15A	10A
额定控制容量 Rated control ratingw	AC-12: 220V5A AC-15: 220V1A DC-12: 110V0.5A DC-13: 110V0.2A	AC-12: 220V3A AC-15: 220V0.3A DC-12: 110V0.5A DC-13: 110V0.2A	AC-12: 220V15A AC-15: 220V3A DC-12: 24V10A DC-13: 24V2A	AC-12: 220V10A AC-15: 220V3A DC-12: 110V0.6A DC-13: 110V0.3A

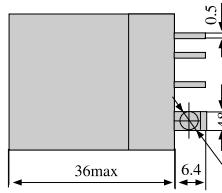
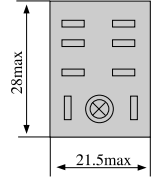
外形尺寸及安装尺寸 Dimensions,mm

■ 插拔式 Plug-in type

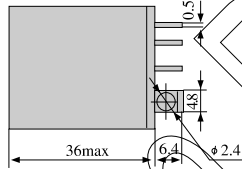
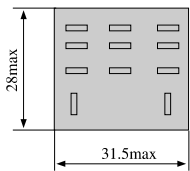
● HH52P,53P,54P



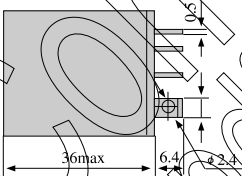
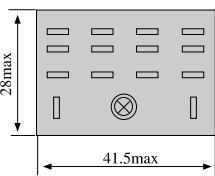
● HH61P,62P



● HH63P

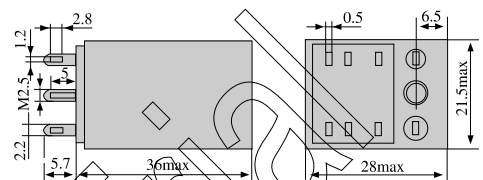


● HH64P



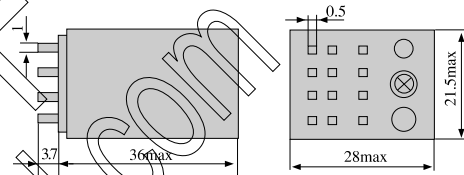
■ 螺钉固定式 Stud-bolt type

● HH52E,53E,54E,62E

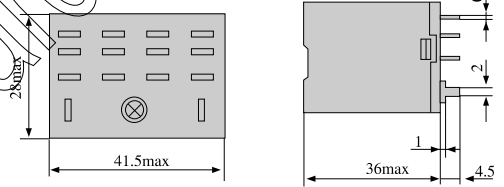


■ 印制板焊装式 P.C.board type

● HH52B,53B,54B,62B

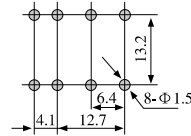


● HH64B

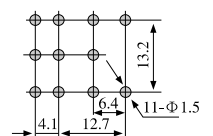


■ 开孔尺寸 P.C board drilling

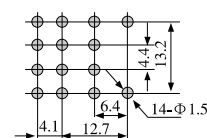
● HH52B



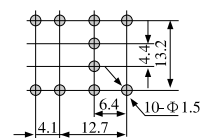
● HH53B



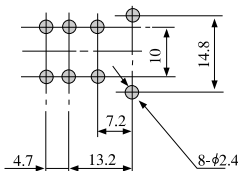
● HH54B



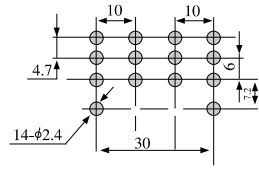
● HH52B-R



● HH62B



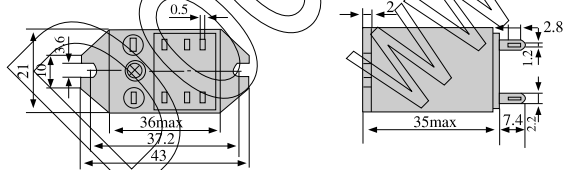
● HH64B



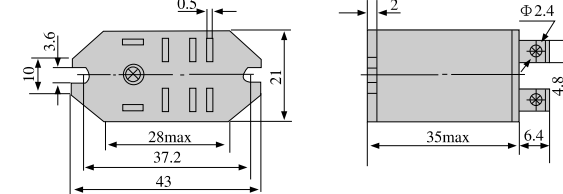
(铜箔方向观察 Bottom view)

■ 法兰式 Flange type

● HH52S,53S,54S

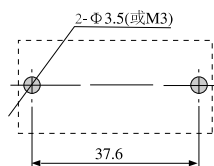


● HH61S,62S



■ 开孔尺寸 Panel drilling

请选用接插片配线



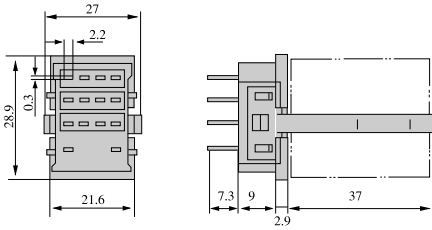
安装插座 (适用于插拔式) Sockets(for plug-in type)

适用继电器 Combined relay	插座型号 Socket type				
	焊接式 Soldering	印制板焊接式 P.C.board	导轨式 (M3) Track mounting	导轨式 (M3)端子防护型 Terminal shield Track mounting	导轨式 (M3.5) Track mounting
HH52P	TP58	TP58B	TP58X1	TP58X1-E	TP58X
HH53P	TP511	TP511B	TP511X1	TP511X1-E	TP511X
HH54P	TP514	TP514B	TP514X1	TP514X1-E	TP514X
HH52P-R	TP514	TP514B	TP514X1	TP514X1-E	TP514X
HH61P	TP68	TP68B		TP68X1-E	TP68X
HH62P	TP68	TP68B		TP68X1-E	TP68X
HH63P					TP611X
HH64P	TP614	TP614B			TP614X

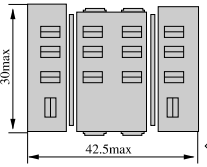
插座外型尺寸及安装尺寸 Dimension,mm/Sockets

■ 焊接式 Soldering

- TP58, TP511, TP514, TP68



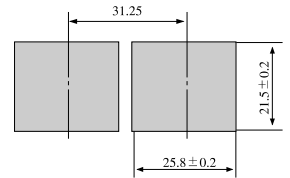
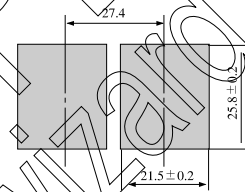
- TP614



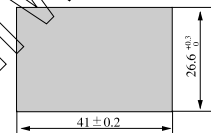
■ 开孔尺寸 Panel cutting

竖装
Vertical mounting

横装
Horizontal mounting

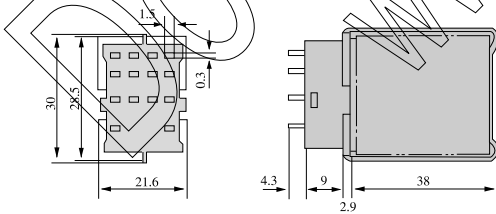


板厚 Panel: 1~2mm

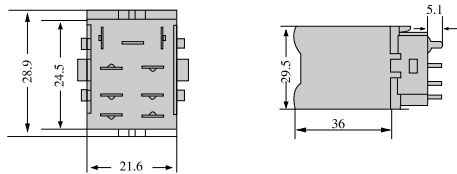


■ 印制板焊装式 P.C.board

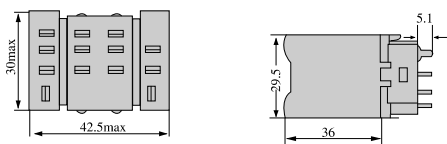
- TP58B, TP511B, TP514B



- TP68B

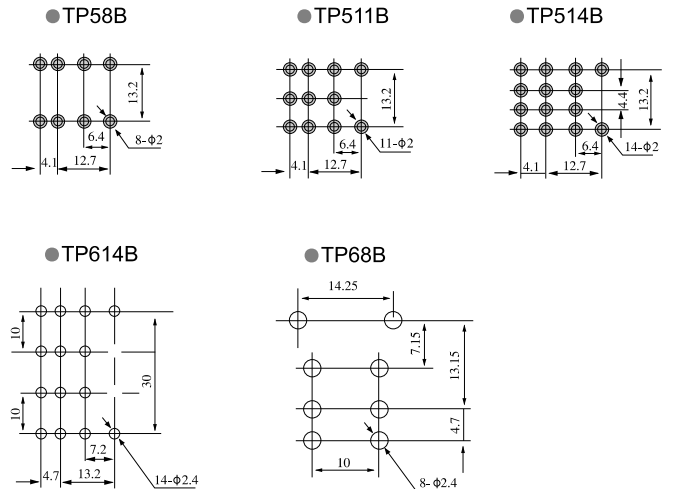


- TP614B



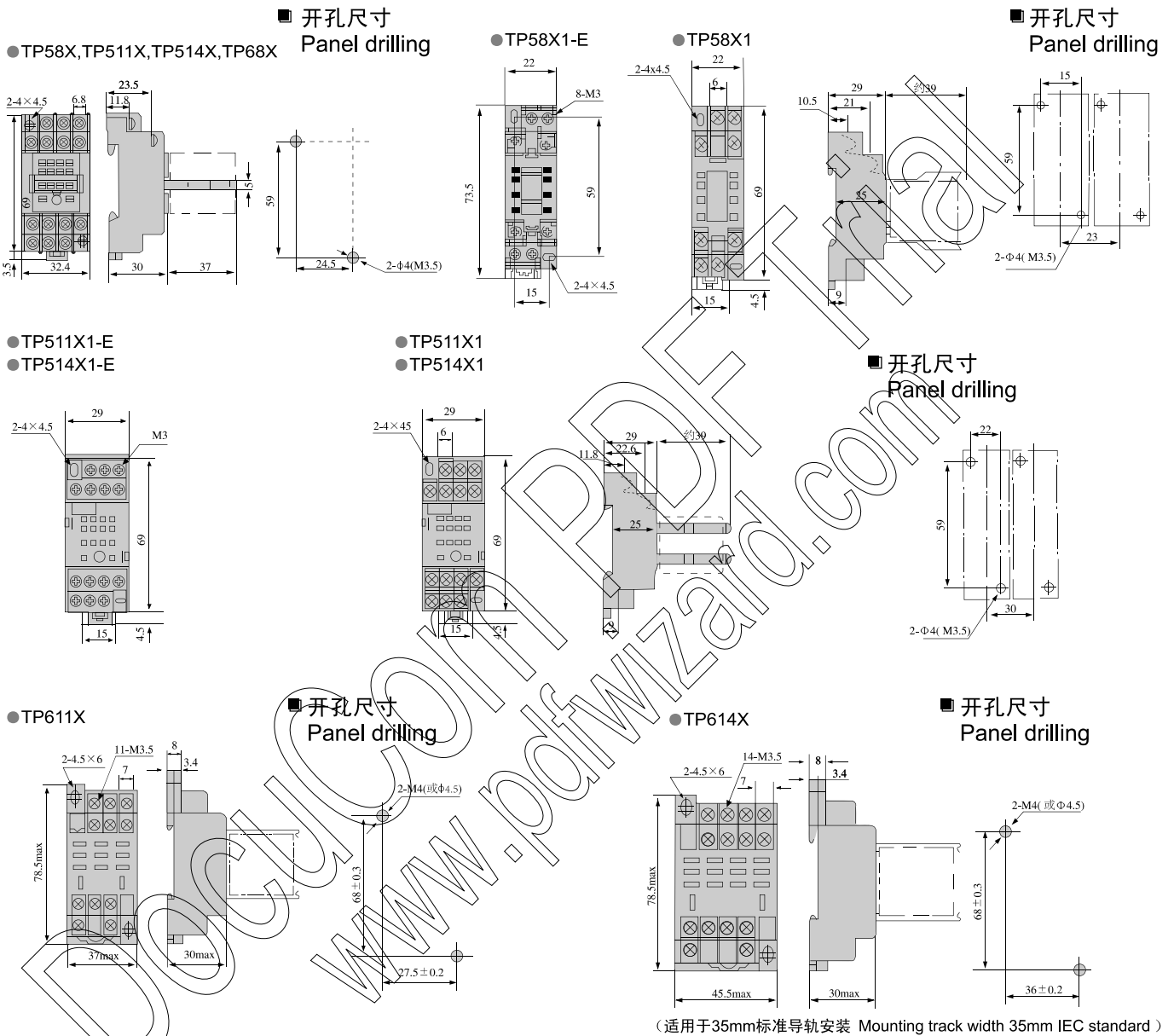
■ 开孔尺寸 P.C.board drilling

(铜箔方向观察 Bottom view)

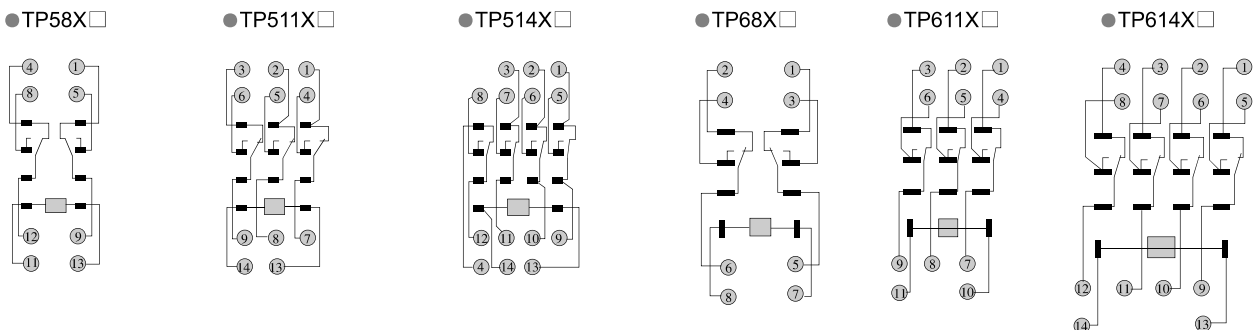


小型控制继电器 MINIATURE CONTROL RELAY

导轨式 Track mounting



接线图 Wiring diagram



(俯视方向观察 Top view)