



Main Feature

1. 2-pole and 4-pole version are available with switching current at 5 Amps (2 Poles & 4 Poles).
2. Printed Circuit Board Terminal, Solder Lug Terminal and Flanged Case are designed for direct panel mounting use.
3. Low coil power consumption with high response time.
4. High reliability and long life with better vibration and shock resistance.
5. Touch Button and LED version are available for customer's selection.

Contact Rating

Load Type	RE-2P (DM/DB)	RE-2P (D)	RE-4P (DM/DB)	RE-4P (D)
Rated Load (Resistive)	5A 250VAC	5A 250VAC	5A 250VAC	5A 250VAC
	5A 30VDC	5A 30VDC	5A 30VDC	5A 30VDC
Rated Carrying Current	5A	5A	5A	5A
Max. Allowable Voltage	AC 250V	AC 250V	AC 250V	AC 250V
	DC 110V	DC 110V	DC 110V	DC 110V
Max. Allowable Current	5A	5A	5A	5A
Max. Allowable Power Force	1,250VA	1,250VA	1,250VA	1,250VA
	150W	150W	150W	150W
Contact Material	Ag Alloy	Ag Alloy	Ag Alloy	Ag Alloy
Contact Form	DPST	DPDT	4PST	4PDT

Application

Vending Machine, Cooking Appliances, Office Machine, Domestic Appliances, Control Equipment... etc.

Performance (at Initial Value)

- Contact Resistance 100 mΩ Max@1A,6VDC
- Operate Time..... 25 mSec. Max.
- Release Time 25 mSec. Max.
- Dielectric Strength :
Between Coil & Contact 1,500VAC at 50/60 Hz for one minute.
Between Contacts 1,000VAC at 50/60 Hz for one minute.
- Surge Strength 3,000V (between Coil & Contact 1.2x50μSec.)
- Insulation Resistance 100 MegaΩ Min. at 500VDC.
- Max. On/Off Switching :
Electrical..... 6 Cycles per Minute.
Mechanical 300 Cycles per Minute.
- Temperature Range..... -25~55°C
- Humidity Range..... 45~85% RH.
- Coil Temperature Rise..... 60°C Max.
- Vibration :
Endurance 10 to 55 Hz dual amplitude width 1.5mm.
Error Operation..... 10 to 55 Hz dual amplitude width 1.5mm.

- Shock :
Endurance 1,000 m/S² Min.
Error Operation..... 100 m/S² Min.
- Life Expectancy :
Mechanical 10⁷ Operations at No Load condition.
Electrical 10⁵ Operations at Rated Resistive Load.
- Weight About 2 P : 32 g.
4 P : 35 g.

Accessories & Sockets

RE-2P

- PYF-08A/AE See Page 172
- PY-08/-0..... See Page 178
- PYF-08BE & BE/3 See Page 172

RE-4P

- PYF-14A/AE See Page 173
- PY-14/-0..... See Page 178
- PYF-14BE & BE/3 See Page 173

Safety Standard & Its File Number

- UL & C-UL. E141060
- VDE. 40012699
- CQC.....07001018730

Coil Specification (at 20°C)

Coil Sensitivity	Coil Voltage Code	Nominal Voltage (VAC/VDC)	Nominal Current (mA)		Coil Resistance ($\Omega \pm 10\%$)	Power Consumption		Pull-In Voltage	Drop-Out Voltage	Max. Allowable Voltage
			50 Hz	60 Hz		50HZ	60HZ			
RE 2P & 4P AC Coil	01	6	282.67	214.33	10	1.7VA	1.29VA	80% Maximum	30% Minimum	110%
	02	12	106.2	94.85	40	1.27VA	1.14VA			
	03	24	52.8	45.45	160	1.27VA	1.09VA			
	04	48	23.65	19.95	600	1.1VA	0.96VA			
	05	110	12.45	10.25	3,400	1.37VA	1.13VA			
	06	120	16.75	14.33	3,400	2.01VA	1.72VA			
	07	220	6.18	5.08	13,600	1.36VA	1.12VA			
	08	240	7.24	5.85	13,600	1.74VA	1.41VA			
	09	230	7.0	5.7	13,600	1.61VA	1.31VA			
RE 2P & 4P DC Coil	01	6	150		40	Abt. 0.9 W		80% Maximum	10% Minimum	110%
	02	12	75.0		160					
	03	24	36.9		650					
	04	48	18.5		2,600					
	05	110	10.0		11,000					
	06	120	10.9		11,000					
	07	220	5.0		44,000	Abt. 1.1 W				

Classification

Model	RE	
Coil Type	AC Coil	
Number Of Poles	2 Poles	4 Poles
Contact Form	RE-2□□A/AM/AB	RE-4□□A/AM/AB
Terminal Type	RE-2□□A/AM/AB RE-2□□AP/AMP/ABP	RE-4□□A/AM/AB RE-4□□AP/AMP/ABP
Case Type	RE-2□□A/AM/AB RE-2□□AF/AMF/ABF	RE-4□□A/AM/AB RE-4□□AF/AMF/ABF
LED	RE-2□□AL/AML/ABL RE-2□□APL/AMPL/ABPL RE-2□□AFL/AMFL/ABFL	RE-4□□AL/AML/ABL RE-4□□APL/AMPL/ABPL RE-4□□AFL/AMFL/ABFL
Touch Button	RE-2□□AT/AMT/ABT RE-2□□APLT/AMPLT/ABPLT RE-2□□AFLT/AMFLT/ABFLT	RE-4□□AT/AMT/ABT RE-4□□APLT/AMPLT/ABPLT RE-4□□AFLT/AMFLT/ABFLT
Europe Type	RE-2□□ALTU/AMLTU/ABLTU RE-2□□APLTU/AMPLTU/ABPLTU	RE-4□□ALTU/AMLTU/ABLTU RE-4□□APLTU/AMPLTU/ABPLTU
Remark	"LTU" were restricted to be together within European Type ordering	

Model	RE	
Coil Type	DC Coil	
Number Of Poles	2 Poles	4 Poles
Contact Form	RE-2□□D/DM/DB	RE-4□□D/DM/DB
Terminal Type	RE-2□□D/DM/DB RE-2□□DP/DMP/DBP	RE-4□□D/DM/DB RE-4□□DP/DMP/DBP
Case Type	RE-2□□D/DM/DB RE-2□□DF/DMF/DBF	RE-4□□D/DM/DB RE-4□□DF/DMF/DBF
LED	RE-2□□DL(Z/Y/X/V)/DML(Z/Y/X/V)/DBL(Z/Y/X/V) RE-2□□DPL(Z/Y/X/V)/(DMPL(Z/Y/X/V)/DBPL(Z/Y/X/V) RE-2□□DFL(Z/Y/X/V)/DMFL(Z/Y/X/V)/DBFL(Z/Y/X/V)	RE-4□□DL(Z/Y/X/V)/DML(Z/Y/X/V)/DBL(Z/Y/X/V) RE-4□□DPL(Z/Y/X/V)/DMPL(Z/Y/X/V)/DBPL(Z/Y/X/V) RE-4□□DFL(Z/Y/X/V)/DMFL(Z/Y/X/V)/DBFL(Z/Y/X/V)
Touch Button	RE-2□□DT/DMT/DBT RE-2□□DPL(Z/Y/X/V)T/DMPL(Z/Y/X/V)T/DBPL(Z/Y/X/V)T RE-2□□DFL(Z/Y/X/V)T/DMFL(Z/Y/X/V)T/DBFL(Z/Y/X/V)T	RE-4□□DT/DMT/DBT RE-4□□DPL(Z/Y/X/V)T/DMPL(Z/Y/X/V)T/DBPL(Z/Y/X/V)T RE-4□□DFL(Z/Y/X/V)T/DMFL(Z/Y/X/V)T/DBFL(Z/Y/X/V)T
Europe Type	RE-2□□DL(Z/Y/X/V)TU/DML(Z/Y/X/V)TU/DBL(Z/Y/X/V)TU RE-2□□DPL(Z/Y/X/V)TU/DMPL(Z/Y/X/V)TU/DBPL(Z/Y/X/V)TU	RE-4□□DL(Z/Y/X/V)TU/DML(Z/Y/X/V)TU/DBL(Z/Y/X/V)TU RE-4□□DPL(Z/Y/X/V)TU/DMPL(Z/Y/X/V)TU/DBPL(Z/Y/X/V)TU
Remark	"LTU" were restricted to be together within European Type ordering	

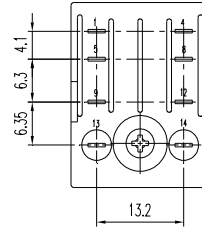
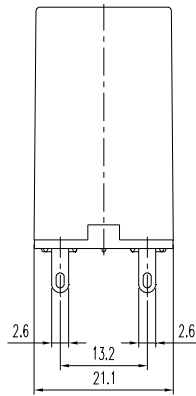
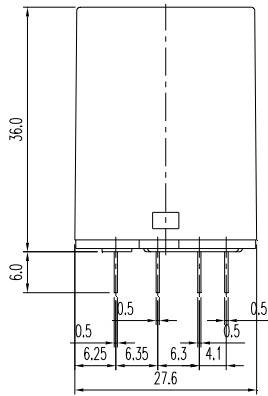
Ordering Information

RE - 2 01 D M P F L T U - N

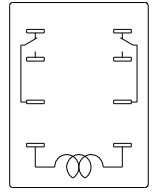
Contact Material code:	<p>Nil: AgSnO₂ S: AgSnO₂ gilded K: AgSnO₂ Au+Plated I: AgNi G: AgNi gilded O: AgNi Au+Plated C: AgCdO W: AgCdO gilded</p>
European Type:	<p>U: European Type (Indicator, Topside Lockable Test Button, Smoked Transparent Case) Nil: Standard RE Relay</p>
Touch Button:	<p>Nil: Standard Relay T: With Touch Button Selection</p>
Internal Connections:	<p>Nil: Standard Relay L: With LED Selection (Use No Polarity LED) Z: Coil Parallel with Diode & the Positive Pole "+" On #14 Terminal Y: Coil Parallel with Diode & the Negative Pole "-" On #14 Terminal X: Coil Parallel with Diode + LED & the Positive Pole "+" On #14 Terminal V: Coil Parallel with Diode + LED & the Negative Pole "-" On #14 Terminal (Z, Y, X, V, Only VDC Coil)</p>
Case Type:	<p>Nil: Standard Square Shape F: Flanged Case (RE Relay Only)</p>
Terminal Type:	<p>Nil: Solder Lug Terminal P: PC Board Terminal</p>
Contact Form:	<p>Nil: Form C M: Form A B: Form B</p>
Coil Type:	<p>D: DC Coil A: AC Coil</p>
Coil Code:	<p>01: 6V, 02: 12V, 03: 24V, 04: 48V, 05: 110V, 06: 120V, 07: 220V, 08: 240V, 09: 230V, 10: 60V</p>
Number of Pole:	<p>2: 2 Poles 4: 4 Poles</p>
Type:	<p>RE</p>

Dimension ($\leq 5\text{mm} \pm 0.2\text{mm}$, $> 5\text{mm} \pm 0.3\text{mm}$, the tolerance of PCB thru hole: $+0.1\text{mm}$)

RE-2

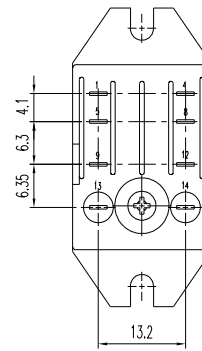
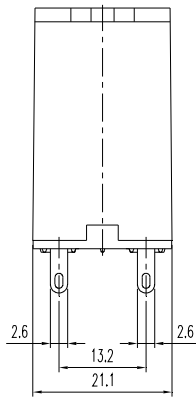
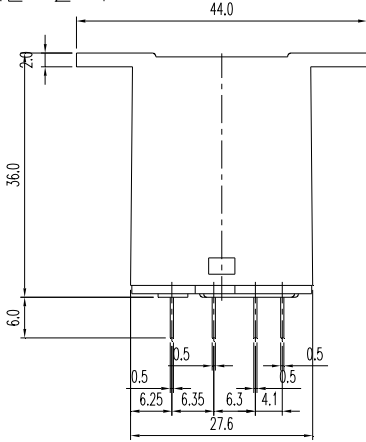


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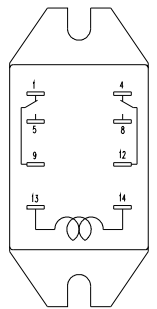


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RE-2-F

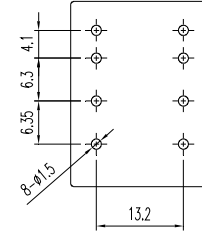
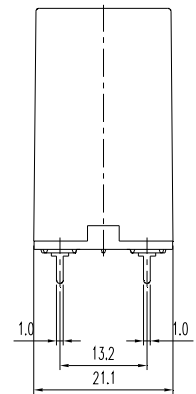
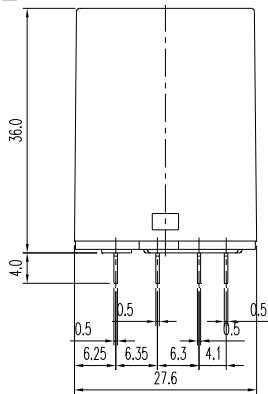


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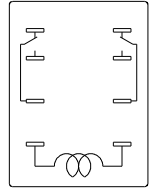


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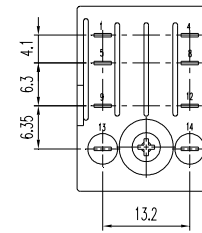
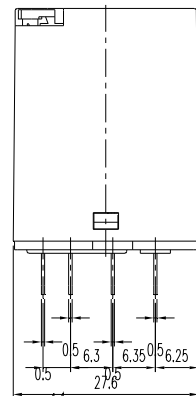
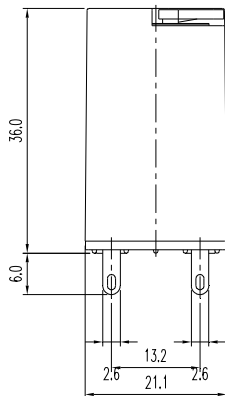


P.C.B. Layout

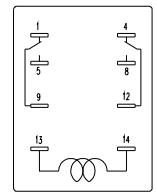


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RE-2xxU



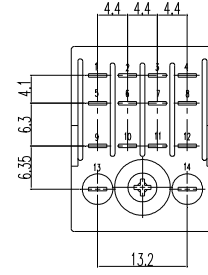
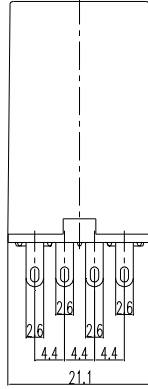
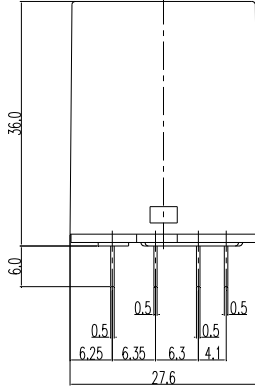
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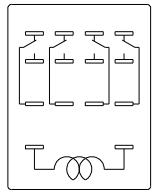
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RE

RE-4

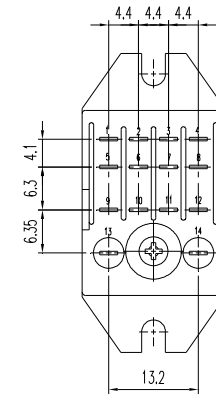
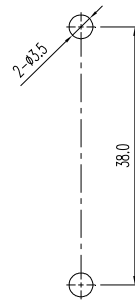
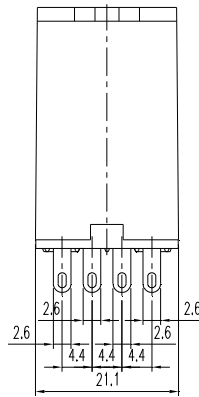
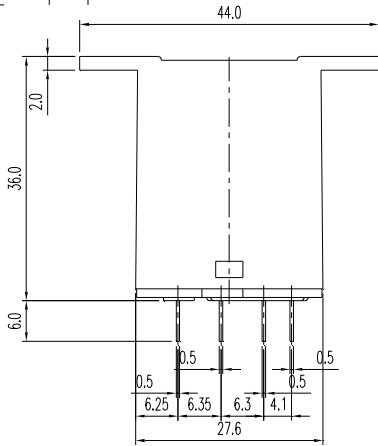


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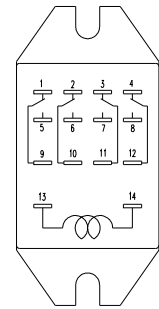


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RE-4-F

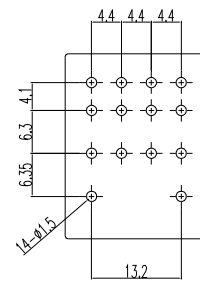
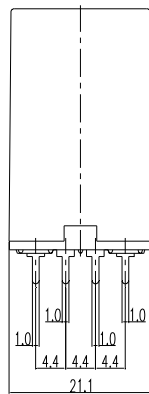
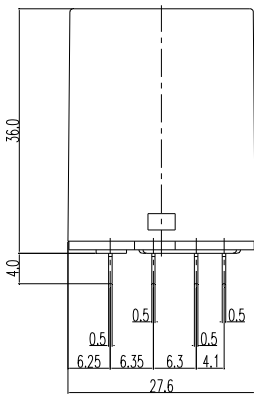


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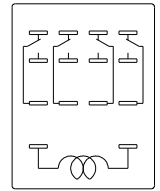


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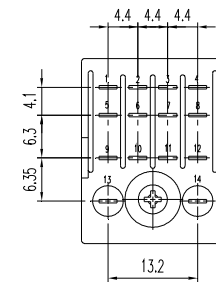
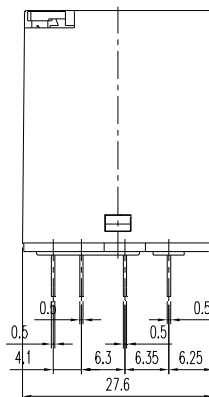
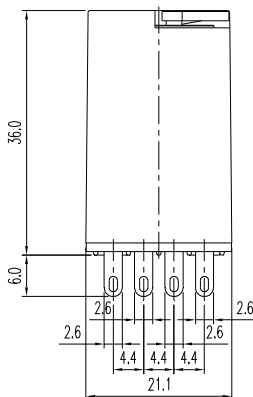


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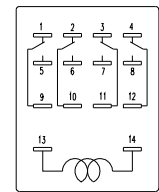


BOTTOM VIEW

RE-4xxU



BOTTOM VIEW



BOTTOM VIEW

Wiring diagrams (Bottom view)

RE-2P		
RE-2□D□□□L□□□	RE-2□D□□□X□□□	RE-2□D□□□V□□□
RE-2□D□□□Z□□□	RE-2□D□□□Y□□□	AC Coil Model With LED
RE-4P		
RE-4□D□□□L□□□	RE-4□D□□□X□□□	RE-4□D□□□V□□□
RE-4□D□□□Z□□□	RE-4□D□□□Y□□□	AC Coil Model With LED