



# TR5V

## SPECIFICATION

FILE NUMBER: T-08KH101A

DATE: 2001/11/02



### ■ Features

Designed for thermostat modem, computer peripherals, video recording and security applications.

1 form A and 1 form C contact arrangement.

Low coil power requirement for IC compatibility.

Terminals arranged on gird pattern.

Designed for compact, high density mounting.

### ■ CONTACT DATA

Contact Form	1C	
Contact Material	AgNi+Au	
Contact Ratings	2A 120VAC/2A 24VDC	
Max Switching Voltage	120VAC/60VDC	
Max Switching Current	2A	
Max Switching Power	240VA/48W	
Contact Resistance	100m $\Omega$ Max	at 6VDC 1A
Life Expectancy Electrical	100,000	Operations(at30Operations/minute)
Mechanical	10,000,000	Operations

### ■ GENERAL DATA

Insulation Resistance	1000M $\Omega$ Min at500VDC	
Dielectric Strength Between Open Contacts	400VAC(for one minute)	
Between Contacts and coil	1000VAC(for one minute)	
Operate Time	4ms Max	
Release Time	3ms Max	
Temperature Range	-25°C~ +55°C	
Shock Resistance	Operating Extremes	10G
	Damage Limits	100G
Vibration Resistance	10-55Hz Double amplitude of 2.0.mm	
Humidity	35%-85%RH	
Weight	Approx. 2.2g	
Safety Standard	UL:E173485	



## ■ COIL DATA

Nominal Voltage (VDC)	Coil Resistance at 20±10% (Ω)		Max Operate Voltage (VDC)		Min Release Voltage (VDC)	Max Applicable Voltage (VDC)
	0.2w	0.36w	0.2w	0.36w		
3	45	25	2.25	2.1	0.3	3.9
5	125	69.4	3.75	3.5	0.5	6.5
6	180	100	4.5	4.2	0.6	7.8
9	405	225	6.75	6.3	0.9	11.7
12	720	400	9	8.4	1.2	15.6
24	2880	1600	18	16.8	2.4	31.2

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## ■ CONTACT DATA

Contact Form	1C	
Contact Material	AgNi+Au	
Contact Ratings	1A 120VAC/1A 24VDC	
Max Switching Voltage	120VAC/60VDC	
Max Switching Current	1A	
Max Switching Power	120VA/30W	
Contact Resistance	100m Ω Max	at 6VDC 1A
Life Expectancy Electrical	100,000	Operations(at30Operations/minute)
Mechanical	10,000,000	Operations



**■ GENERAL DATA**

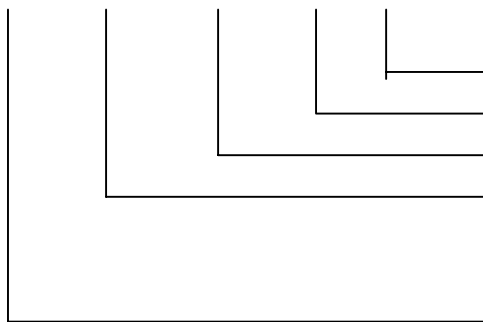
Insulation Resistance		1000M Ω Min at500VDC
Dielectric Strength Between Open Contacts		400VAC(for one minute)
Between Contacts and coil		1000VAC(for one minute)
Operate Time		4ms Max
Release Time		3ms Max
Temperature Range		-25 °C~+55 °C
Shock Resistance	Operating Extremes	10G
	Damage Limits	100G
Vibration Resistance		10-55Hz Double amplitude of 2.0.mm
Humidity		35%-85%RH
Weight		Approx. 2.2g
Safety Standard		UL:E173485

**■ COIL DATA**

Nominal Voltage (VDC)	Coil Resistance at20±10% (Ω)	Max Operate Voltage (VDC)	Min Release Voltage (VDC)	Max Applicable Voltage (VDC)
	0.15w	0.15w		
3	60	2.4	0.3	3.9
5	167	4.0	0.5	6.5
6	240	4.8	0.6	7.8
9	540	7.2	0.9	11.7
12	960	9.6	1.2	15.6

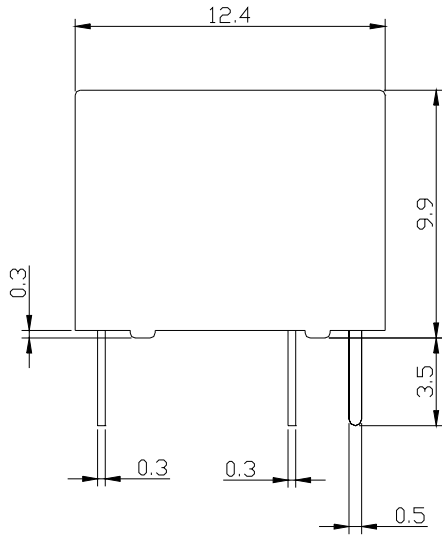
**■ ORDERING CODE**

TR5V D--12VDC-S---Z

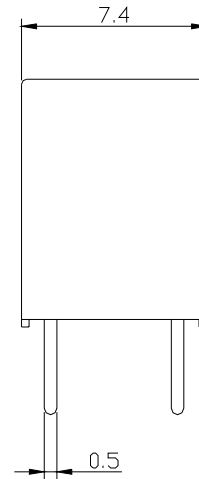


Z Form C  
 Sealed  
 Coil Nominal Voltage  
 D=0.36W Coil Power  
 L=0.2W  
 M=0.15W  
 Relay Model

OVERALL AND MOUNTING DIMENSIONS



Dimensions



Terminal Arrangement/  
Internal Connections  
(Bottom view)

