



# TR5V

## SPECIFICATION

FILE NUMBER: T-08KH101A

DATE: 2001/11/02

[www.DataSheet4U.net](http://www.DataSheet4U.net)

## ■ 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<br>(VDC) | Coil Resistance at 20±10%<br>(Ω) |       | Max Operate Voltage<br>(VDC) |       | Min Release Voltage<br>(VDC) | Max Applicable Voltage<br>(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 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

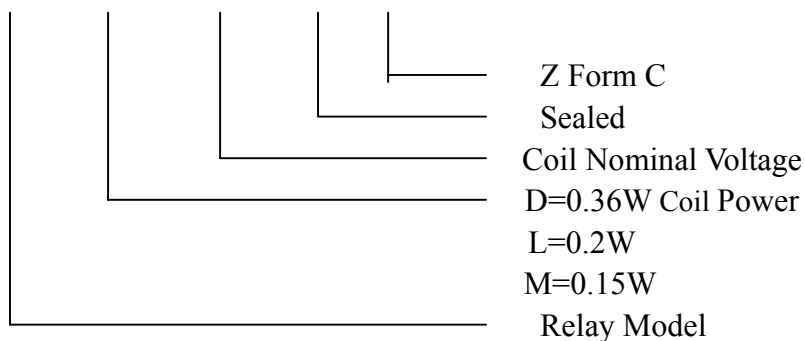
|                                           |                    |                                    |
|-------------------------------------------|--------------------|------------------------------------|
| Insulation Resistance                     |                    | 1000M $\Omega$ Min at500VDC        |
| 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

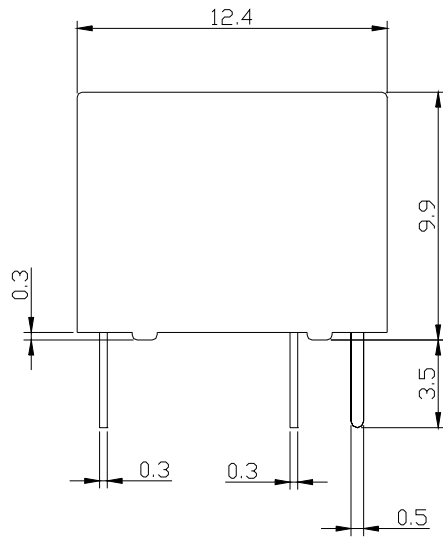
| Nominal Voltage<br>(VDC) | Coil Resistance at20±10%<br>( $\Omega$ ) | Max Operate Voltage<br>(VDC) | Min Release Voltage<br>(VDC) | Max Applicable Voltage<br>(VDC) |
|--------------------------|------------------------------------------|------------------------------|------------------------------|---------------------------------|
|                          | 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

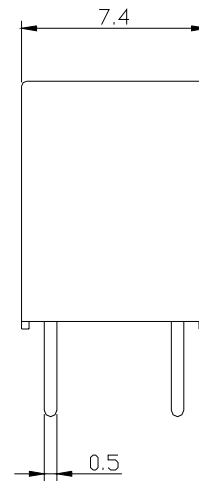
TR5V   D--12VDC-S---Z



## OVERALL AND MOUNTING DIMENSIONS



Dimensions



Terminal Arrangement/  
Internal Connections  
(Bottom view)

