

# POTTER & BRUMFIELD 30A PCB RELAY T9G SERIES

TE Connectivity (TE)'s Potter & Brumfield T9G relay series is a 30A Power PCB relay for HVAC, appliance and industrial control applications. The T9G relay is the smallest relay in its class with a 30% smaller package size and 13% less PCB floor space all while keeping the standard footprint, allowing manufacturers to add more components on PCBs without having to compromise on relay performance. By having both UL and VDE certifications, TE's P&B relay T9G series is a versatile relay that can be used globally and through its PCB and quick connect terminations, it is user-friendly and easy to install.



## Applications

- HVAC
- Appliances
- Industrial Controls
- Energy Management

## Electrical

- Rated current: 30 A
- Rated voltage: 480 VAC Max.

## Mechanical

- Contact arrangement: 1 form A (NO), 1 form B (NC), 1 form C (CO)
- PCB mounting or PCB mounting with quick connects
- Wash-tight (with knock off nib) or Flux-proof plastic case

## Specifications

- UL 508
- UL E214025
- IEC 61810-1
- VDE 40045012
- [Data sheet](#)

## Materials

- Contact Material: AgSnO

## Benefits

- Save PCB space with the smallest relay in its class while maintaining standard footprint
- Achieve a global relay solution with both UL and VDE certifications
- Help provide operator safety through increased insulation (UL 61810-1)
- Increase relay performance through 4kV dielectric rating / 8kV surge voltage between coil and contacts

Visit [te.com/T9G](https://te.com/T9G)  
for a product sample

### Product Code Structure

Typical product code

T9G S 5 L 2 4 -12

**Type**

T9G	Power PCB relay T9G
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**Enclosure**

S	Wash-tight plastic case with knock off nib (requires mounting code 1 or 2)
V	Flux-proof plastic case (requires mounting code 1 or 2)

**Contact arrangement**

1	1 form A, 1 NO
2	1 form B, 1 NC
5	1 form C, 1 CO

**Coil**

-12	Coil code: please refer to coil versions table on <a href="#">data sheet</a>
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**Contact material**

4	AgSnO (RoHS compliant)
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**Mounting and termination**

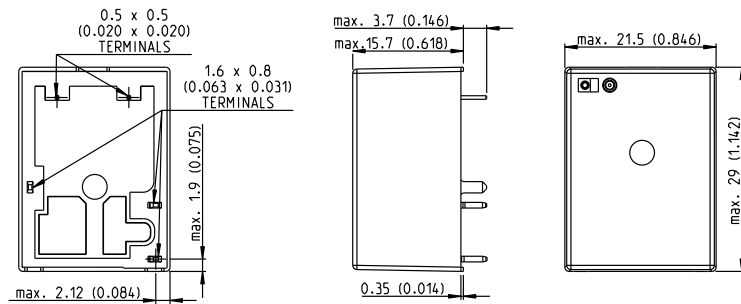
1	PCB mounting; PCB terminals for coil and contacts
2	PCB mounting; PCB terminals for coil and contacts, and 6.35mm (.250in) quick connects for contacts

**Coil input**

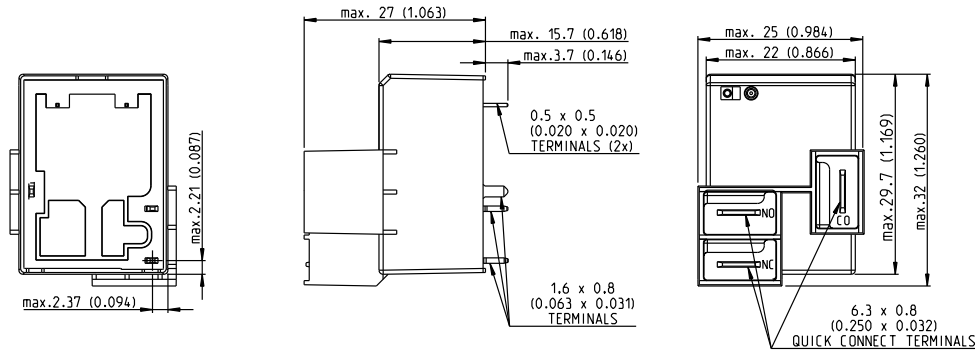
L	DC voltage, 900mW
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### Dimensions

**Mounting and termination code 1**



**Mounting and termination code 2**



Dimensions in millimeters (inches)

Product Selection Information

**FLUX-PROOF PLASTIC CASE** (requires mounting code 1 or 2)



**PCB TERMINALS**

Product Code	Contacts	Coil	Part Number
T9GV5L14-5	1 CO	5VDC	<a href="#">1558660-1</a>
T9GV5L14-9		9VDC	<a href="#">1558660-2</a>
T9GV5L14-12		12VDC	<a href="#">1558660-3</a>
T9GV5L14-15		15VDC	<a href="#">1558660-4</a>
T9GV5L14-18		18VDC	<a href="#">1558660-5</a>
T9GV5L14-22		22VDC	<a href="#">1558660-6</a>
T9GV5L14-24		24VDC	<a href="#">1558660-7</a>
T9GV5L14-48		48VDC	<a href="#">1558660-8</a>
T9GV5L14-110		110VDC	<a href="#">1558660-9</a>
T9GV1L14-5	1 NO	5VDC	<a href="#">1558661-1</a>
T9GV1L14-9		9VDC	<a href="#">1558661-2</a>
T9GV1L14-12		12VDC	<a href="#">1558661-3</a>
T9GV1L14-15		15VDC	<a href="#">1558661-4</a>
T9GV1L14-18		18VDC	<a href="#">1558661-5</a>
T9GV1L14-22		22VDC	<a href="#">1558661-6</a>
T9GV1L14-24		24VDC	<a href="#">1558661-7</a>
T9GV1L14-48		48VDC	<a href="#">1558661-8</a>
T9GV1L14-110		110VDC	<a href="#">1558661-9</a>
T9GV2L14-5	1 NC	5VDC	<a href="#">1558662-1</a>
T9GV2L14-9		9VDC	<a href="#">1558662-2</a>
T9GV2L14-12		12VDC	<a href="#">1558662-3</a>
T9GV2L14-15		15VDC	<a href="#">1558662-4</a>
T9GV2L14-18		18VDC	<a href="#">1558662-5</a>
T9GV2L14-22		22VDC	<a href="#">1558662-6</a>
T9GV2L14-24		24VDC	<a href="#">1558662-7</a>
T9GV2L14-48		48VDC	<a href="#">1558662-8</a>
T9GV2L14-110		110VDC	<a href="#">1558662-9</a>

**PCB + QUICK CONNECT**

Product Code	Contacts	Coil	Part Number
T9GV5L24-5	1 CO	5VDC	<a href="#">1558670-1</a>
T9GV5L24-9		9VDC	<a href="#">1558670-2</a>
T9GV5L24-12		12VDC	<a href="#">1558670-3</a>
T9GV5L24-15		15VDC	<a href="#">1558670-4</a>
T9GV5L24-18		18VDC	<a href="#">1558670-5</a>
T9GV5L24-22		22VDC	<a href="#">1558670-6</a>
T9GV2L24-24	1 NC	24VDC	<a href="#">1558672-7</a>
T9GV2L24-48		48VDC	<a href="#">1558672-8</a>
T9GV2L24-110		110VDC	<a href="#">1558672-9</a>

Product Selection Information

WASH-TIGHT PLASTIC CASE WITH KNOCK OFF NIB (requires mounting code 1 or 2)



PCB TERMINALS

Product Code	Contacts	Coil	Part Number
T9GS5L14-5	1 CO	5VDC	<a href="#">1558665-1</a>
T9GS5L14-9		9VDC	<a href="#">1558665-2</a>
T9GS5L14-12		12VDC	<a href="#">1558665-3</a>
T9GS5L14-15		15VDC	<a href="#">1558665-4</a>
T9GS5L14-18		18VDC	<a href="#">1558665-5</a>
T9GS5L14-22		22VDC	<a href="#">1558665-6</a>
T9GS5L14-24		24VDC	<a href="#">1558665-7</a>
T9GS5L14-48		48VDC	<a href="#">1558665-8</a>
T9GS5L14-110		110VDC	<a href="#">1558665-9</a>
T9GS1L14-5	1 NO	5VDC	<a href="#">1558666-1</a>
T9GS1L14-9		9VDC	<a href="#">1558666-2</a>
T9GS1L14-12		12VDC	<a href="#">1558666-3</a>
T9GS1L14-15		15VDC	<a href="#">1558666-4</a>
T9GS1L14-18		18VDC	<a href="#">1558666-5</a>
T9GS1L14-22		22VDC	<a href="#">1558666-6</a>
T9GS1L14-24		24VDC	<a href="#">1558666-7</a>
T9GS1L14-48		48VDC	<a href="#">1558666-8</a>
T9GS1L14-110		110VDC	<a href="#">1558666-9</a>
T9GS2L14-5	1 NC	5VDC	<a href="#">1558667-1</a>
T9GS2L14-9		9VDC	<a href="#">1558667-2</a>
T9GS2L14-12		12VDC	<a href="#">1558667-3</a>
T9GS2L14-15		15VDC	<a href="#">1558667-4</a>
T9GS2L14-18		18VDC	<a href="#">1558667-5</a>
T9GS2L14-22		22VDC	<a href="#">1558667-6</a>
T9GS2L14-24		24VDC	<a href="#">1558667-7</a>
T9GS2L14-48		48VDC	<a href="#">1558667-8</a>
T9GS2L14-110		110VDC	<a href="#">1558667-9</a>

PCB + QUICK CONNECT

Product Code	Contacts	Coil	Part Number
T9GS5L24-5	1 CO	5VDC	<a href="#">1558675-1</a>
T9GS5L24-9		9VDC	<a href="#">1558675-2</a>
T9GS5L24-12		12VDC	<a href="#">1558675-3</a>
T9GS5L24-15		15VDC	<a href="#">1558675-4</a>
T9GS5L24-18		18VDC	<a href="#">1558675-5</a>
T9GS5L24-22		22VDC	<a href="#">1558675-6</a>
T9GS5L24-24		24VDC	<a href="#">1558675-7</a>
T9GS5L24-48		48VDC	<a href="#">1558675-8</a>
T9GS5L24-110		110VDC	<a href="#">1558675-9</a>
T9GS1L24-5	1 NO	5VDC	<a href="#">1558676-1</a>
T9GS1L24-9		9VDC	<a href="#">1558676-2</a>
T9GS1L24-12		12VDC	<a href="#">1558676-3</a>
T9GS1L24-15		15VDC	<a href="#">1558676-4</a>
T9GS1L24-18		18VDC	<a href="#">1558676-5</a>
T9GS1L24-22		22VDC	<a href="#">1558676-6</a>
T9GS1L24-24		24VDC	<a href="#">1558676-7</a>
T9GS1L24-48		48VDC	<a href="#">1558676-8</a>
T9GS1L24-110		110VDC	<a href="#">1558676-9</a>
T9GS2L24-5	1 NC	5VDC	<a href="#">1558677-1</a>
T9GS2L24-9		9VDC	<a href="#">1558677-2</a>
T9GS2L24-12		12VDC	<a href="#">1558677-3</a>
T9GS2L24-15		15VDC	<a href="#">1558677-4</a>
T9GS2L24-18		18VDC	<a href="#">1558677-5</a>
T9GS2L24-22		22VDC	<a href="#">1558677-6</a>
T9GS2L24-24		24VDC	<a href="#">1558677-7</a>
T9GS2L24-48		48VDC	<a href="#">1558677-8</a>
T9GS2L24-110		110VDC	<a href="#">1558677-9</a>

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