

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
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 data sheet
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Contact material

4	AgSnO (RoHS compliant)
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Mounting and termination

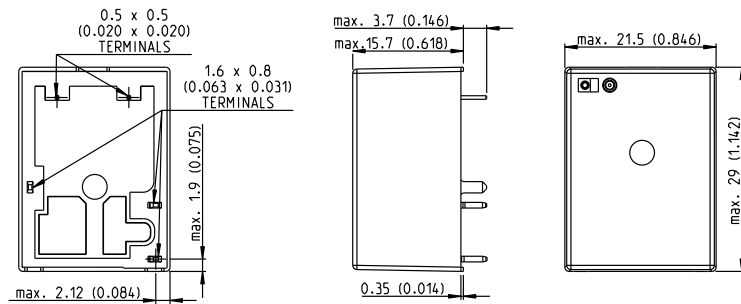
1	PCB mounting; PCB terminals for coil and contacts
2	PCB mounting; PCB terminals for coil and contacts, and 6.35mm (.250in) quick connects for contacts

Coil input

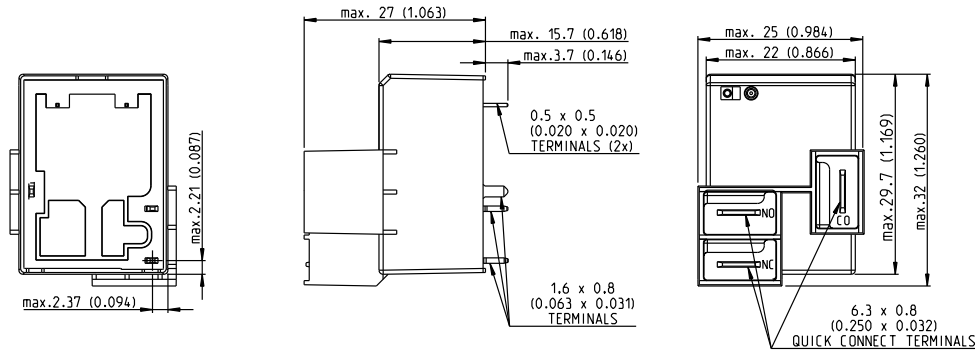
L	DC voltage, 900mW
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Dimensions

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	1558660-1
T9GV5L14-9		9VDC	1558660-2
T9GV5L14-12		12VDC	1558660-3
T9GV5L14-15		15VDC	1558660-4
T9GV5L14-18		18VDC	1558660-5
T9GV5L14-22		22VDC	1558660-6
T9GV5L14-24		24VDC	1558660-7
T9GV5L14-48		48VDC	1558660-8
T9GV5L14-110		110VDC	1558660-9
T9GV1L14-5	1 NO	5VDC	1558661-1
T9GV1L14-9		9VDC	1558661-2
T9GV1L14-12		12VDC	1558661-3
T9GV1L14-15		15VDC	1558661-4
T9GV1L14-18		18VDC	1558661-5
T9GV1L14-22		22VDC	1558661-6
T9GV1L14-24		24VDC	1558661-7
T9GV1L14-48		48VDC	1558661-8
T9GV1L14-110		110VDC	1558661-9
T9GV2L14-5	1 NC	5VDC	1558662-1
T9GV2L14-9		9VDC	1558662-2
T9GV2L14-12		12VDC	1558662-3
T9GV2L14-15		15VDC	1558662-4
T9GV2L14-18		18VDC	1558662-5
T9GV2L14-22		22VDC	1558662-6
T9GV2L14-24		24VDC	1558662-7
T9GV2L14-48		48VDC	1558662-8
T9GV2L14-110		110VDC	1558662-9

PCB + QUICK CONNECT

Product Code	Contacts	Coil	Part Number
T9GV5L24-5	1 CO	5VDC	1558670-1
T9GV5L24-9		9VDC	1558670-2
T9GV5L24-12		12VDC	1558670-3
T9GV5L24-15		15VDC	1558670-4
T9GV5L24-18		18VDC	1558670-5
T9GV5L24-22		22VDC	1558670-6
T9GV2L24-24	1 NC	24VDC	1558672-7
T9GV2L24-48		48VDC	1558672-8
T9GV2L24-110		110VDC	1558672-9

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	1558665-1
T9GS5L14-9		9VDC	1558665-2
T9GS5L14-12		12VDC	1558665-3
T9GS5L14-15		15VDC	1558665-4
T9GS5L14-18		18VDC	1558665-5
T9GS5L14-22		22VDC	1558665-6
T9GS5L14-24		24VDC	1558665-7
T9GS5L14-48		48VDC	1558665-8
T9GS5L14-110		110VDC	1558665-9
T9GS1L14-5	1 NO	5VDC	1558666-1
T9GS1L14-9		9VDC	1558666-2
T9GS1L14-12		12VDC	1558666-3
T9GS1L14-15		15VDC	1558666-4
T9GS1L14-18		18VDC	1558666-5
T9GS1L14-22		22VDC	1558666-6
T9GS1L14-24		24VDC	1558666-7
T9GS1L14-48		48VDC	1558666-8
T9GS1L14-110		110VDC	1558666-9
T9GS2L14-5	1 NC	5VDC	1558667-1
T9GS2L14-9		9VDC	1558667-2
T9GS2L14-12		12VDC	1558667-3
T9GS2L14-15		15VDC	1558667-4
T9GS2L14-18		18VDC	1558667-5
T9GS2L14-22		22VDC	1558667-6
T9GS2L14-24		24VDC	1558667-7
T9GS2L14-48		48VDC	1558667-8
T9GS2L14-110		110VDC	1558667-9

PCB + QUICK CONNECT

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

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