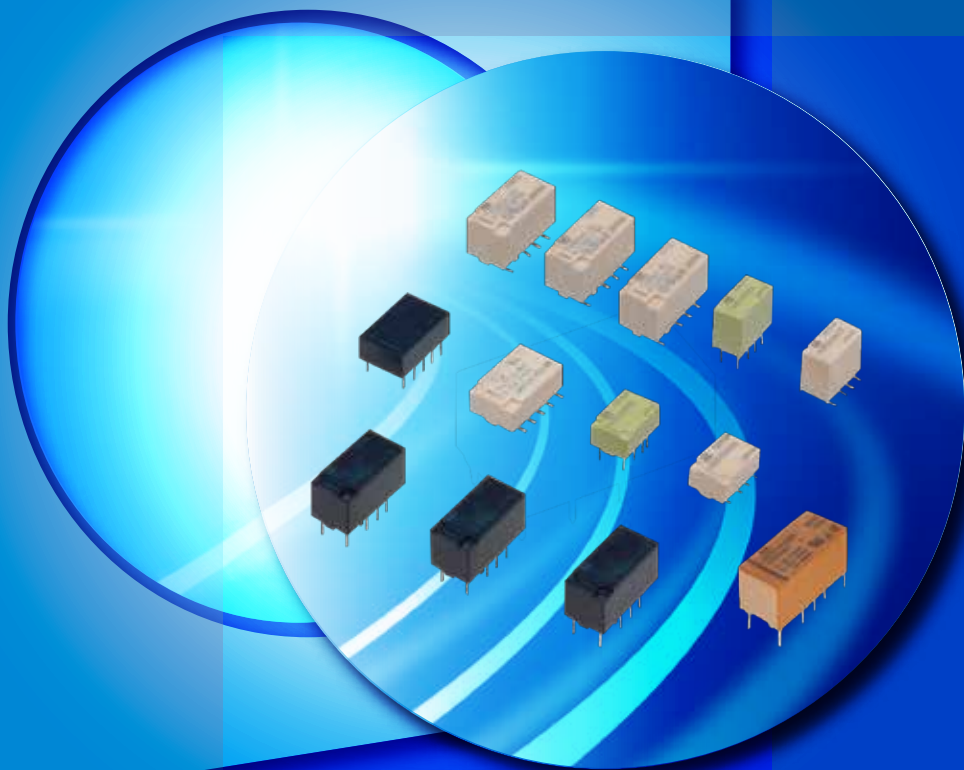


Panasonic

SIGNAL RELAYS

WIDE VARIETY AND HIGH PERFORMANCE



All signal
relays are
230V AC tested
and RTIII (IP67)
compliant

Our GN and GQ series offer solutions for different requirements concerning space, sensitivity and contact material

Upright construction



GN

Horizontal design



GQ

HIGH
RUNNERS

- Stationary AgPd+ Au clad contacts
- Movable AgPd contacts
- 100mW nominal operating power

Applications



Communication network equipments

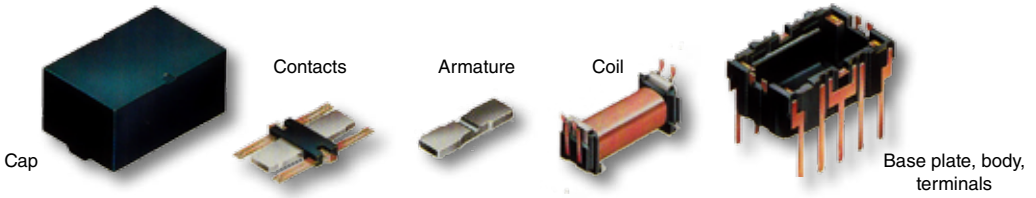
- Switching equipment and transfer devices
- LAN equipment
- Telecommunication equipment



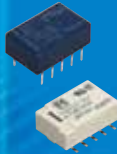
Automotive

- Automotive electronics
- Automotive equipment

Basic relay design



The TQ series has the lowest profil of all signal relays



STURDY
DESIGN

TQ

Only 5mm in height

Popular among our key customers in the measurement technology sector



TRUSTED
CLASSIC

DS

1 Form C
2 Form C



Security

- Home security equipment
- Building security equipment
- Entrance and exit control equipment

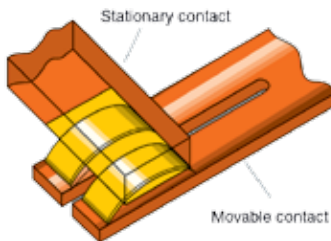


Precision devices

- Medical equipment
- Test and measurement equipment
- Automatic meter reading system

5 layer twin crossbar contacts

Twin crossbar contacts for high contact reliability



Diversity starts with the same pinning

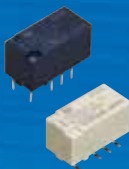
Standard type



TX

AgPd contacts for low level loads

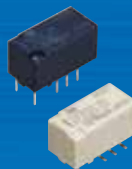
Sensitive type



TX-S

50mW nominal operating power

High insulation type



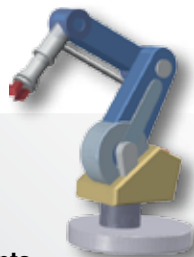
TX-D

6kV
EN60950
compliant



Home appliances/Office automation

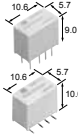
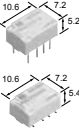


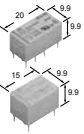

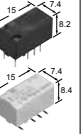
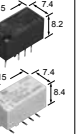
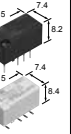


















- Audio/visual equipment
- PC and peripherals
- Office Automation (OA)



Industrial equipments

- Machine tools
- NC machines
- Robotics

Signal relays

Products	GN	GQ	TQ	DS2Y	DS	TQ-SMD	TX	TX-S	TX-D
Type of relay									
Features	High sensitivity, 100mW Nominal operating power, 2 Form C and 1 A Slim body type relays	High sensitivity, 100mW Nominal operating power, 2 Form C and 2 A Compact flat body type relays	5mm Low profile, 2 Form C and 1 A relays	High sensitivity 2 Form C contact Sealed construction	1 Form C/ 2 Form C, 2 A, 200mW Nominal operating power relays	JIS C 0806 compliant, 5mm Low profile, 2 Form C and 2 A (Surface-mount type) relays	2,000V AC breakdown voltage, 2 Form C and 2 A relays	High sensitivity, 50mW Nominal operating power, 2 Form C and 1 A relays	6,000V Surge breakdown voltage, 2 Form C, 2 A and high breakdown voltage type relays
Sealed	●	●	●	●	●	●	●	●	●
Latching types availability	●	●	●	—	●	●	●	●	●
Contact material (Optional material)	Stationary: AgPd+Au clad Movable: AgPd	Stationary: AgPd+Au clad Movable: AgPd	Ag + Au clad	Ag + Au clad	Ag + Au clad	AgNi type + Au clad	Ag + Au clad	Ag + Au clad	Ag + Au clad
Contact rating chart (cos φ = 1)	15A 10A 8A 5A 3A 2A 1A 1A 30V DC 	2A 30V DC 	1A 30V DC 	2A 30V DC 	2A 30V DC 	2A 30V DC 	2A 30V DC 	1A 30V DC 	2A 30V DC 
Minimum (For reference)	10μA 10mV DC	10μA 10mV DC	10μA 10mV DC	10μA 10mV DC	10μA 10mV DC	10μA 10mV DC	10μA 10mV DC	10μA 10mV DC	10μA 10mV DC
Surge breakdown voltage	1,500V FCC 2,500V Telcordia	1,500V FCC 2,500V Telcordia	1,500V FCC	1,500V FCC	1,500V FCC	1,500V FCC 2,500V Telcordia	1,500V FCC 2,500V Telcordia	1,500V FCC 2,500V Telcordia	1,500V FCC
Coil voltage	(DC) 1.5, 3, 4.5, 6, 9, 12, 24V	(DC) 1.5, 3, 4.5, 6, 9, 12, 24V	(DC) 3, 4.5, 5, 6, 9, 12, 24, 48V	(DC) 3, 5, 6, 9, 12, 24, 48V	(DC) 3, 5, 6, 9, 12, 24, 48V	(DC) 1.5, 3, 4.5, 5, 6, 9, 12, 24, 48V	(DC) 3, 4.5, 5, 6, 9, 12, 24V	(DC) 3, 4.5, 6, 9, 12, 24V	(DC) 3, 4.5, 5, 6, 9, 12, 24V
Nominal operating power	(Single) 1.5 to 12V DC: 140mW 24V DC: 230mW	(Single) 1.5 to 12V DC: 140mW 24V DC: 230mW	(Single) 3 to 12V DC: 140mW 24V DC: 200mW 48V DC: 300mW	(Single) 3 to 24V DC: 200mW 48V DC: 300mW	(Single) 200mW (2 coil latching) 180mW	(Single) 1.5 to 12V DC: 140mW 24V DC: 200mW 48V DC: 300mW	(Single) 3 to 24V DC: 140mW 24V DC: 200mW	(Single) 3 to 12V DC: 50mW 24V DC: 70mW	(Single) 3 to 12V DC: 200mW 24V DC: 230mW
Standards	UL, C-UL, BSI	UL, C-UL, BSI	UL, CSA	UL, CSA	UL, CSA	UL, CSA	UL, C-UL, BSI	UL, C-UL, BSI	UL, C-UL, BSI
Mounting method									

North America

Europe

Asia Pacific

China

Japan

Panasonic Electric Works

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