

## ● Quick-connect Terminal (#187)

| Classification | Enclosure rating | Number of poles<br>Contact form | 1-pole          |                       |
|----------------|------------------|---------------------------------|-----------------|-----------------------|
|                |                  |                                 | Model           | Rated coil voltage    |
| Standard       | Unsealed         | NO                              | <b>G2R-1A-T</b> | 12, 24, 100/(110) VAC |
|                |                  |                                 |                 | 200/(220) VAC         |
|                |                  |                                 |                 | 5, 6, 12, 24, 48 VDC  |
|                |                  |                                 |                 | 100 VDC               |
|                |                  | NO/NC                           | <b>G2R-1-T</b>  | 12, 24, 100/(110) VAC |
|                |                  |                                 |                 | 200/(220) VAC         |
|                |                  |                                 |                 | 5, 6, 12, 24, 48 VDC  |
|                |                  |                                 |                 | 100 VDC               |

## ● Full-wave Rectifier

| Classification | Enclosure rating | Number of poles<br>Contact form | 1-pole           |                    | 2-pole           |                      |
|----------------|------------------|---------------------------------|------------------|--------------------|------------------|----------------------|
|                |                  |                                 | Model            | Rated coil voltage | Model            | Rated coil voltage   |
| Standard       | Flux protection  | NO                              | <b>G2R-1A-Z</b>  | 5, 12, 24 VDC      | <b>G2R-2A-Z</b>  | 5, 6, 12, 24, 48 VDC |
|                |                  |                                 |                  | 100 VDC            |                  | 100 VDC              |
|                |                  | NO/NC                           | <b>G2R-1-Z</b>   | 5, 12, 24, 48 VDC  | <b>G2R-2-Z</b>   | 12, 24, 48 VDC       |
|                |                  |                                 |                  | 100 VDC            |                  | 100 VDC              |
|                | Fully sealed     | NO                              | <b>G2R-1A4-Z</b> | 5, 12, 48 VDC      | <b>G2R-2A4-Z</b> | 24, 48 VDC           |
|                |                  |                                 |                  | 100 VDC            |                  | 100 VDC              |
|                |                  | NO/NC                           | <b>G2R-14-Z</b>  | 5, 12, 24, 48 VDC  | <b>G2R-24-Z</b>  | 5, 12, 24 VDC        |
|                |                  |                                 |                  | 100 VDC            |                  | 100 VDC              |
| High-capacity  | Flux protection  | NO                              | <b>G2R-1A-EZ</b> | 5, 12, 24 VDC      | —                |                      |
|                |                  |                                 |                  | 100 VDC            |                  |                      |
|                |                  | NO/NC                           | <b>G2R-1-EZ</b>  | 12, 24, 48 VDC     |                  |                      |

## ● For Ultrasonically Cleanable

| Classification | Enclosure rating | Number of poles<br>Contact form | 1-pole           |                                | 2-pole           |                                    |
|----------------|------------------|---------------------------------|------------------|--------------------------------|------------------|------------------------------------|
|                |                  |                                 | Model            | Rated coil voltage             | Model            | Rated coil voltage                 |
| Standard       | Fully sealed     | NO                              | <b>G2R-1A4-U</b> | 12, 24, 100/(110) VAC          | <b>G2R-2A4-U</b> | 100/(110) VAC                      |
|                |                  |                                 |                  | 200/(220) VAC                  |                  | —                                  |
|                |                  |                                 |                  | 5, 6, 12, 24, 48 VDC           |                  | 5, 12, 24 VDC                      |
|                |                  | NO/NC                           | <b>G2R-14-U</b>  | 100/(110) VAC<br>200/(220) VAC | <b>G2R-24-U</b>  | 24, 100/(110) VAC<br>200/(220) VAC |
|                |                  |                                 |                  | 5, 12, 24, 48 VDC              |                  | 5, 12, 24, 48 VDC                  |
|                |                  |                                 |                  | 100 VDC                        |                  | 100 VDC                            |

Note: When ordering, add the rated coil voltage to the model number.

Example: G2R-1A-T AC12

Rated coil voltage

However, the notation of the coil voltage on the product case as well as on the packing will be marked as □□ VAC.

■Ratings

● Coil

| Item                                                                                                                                                 |               | Rated current (mA) |           | Coil resistance (Ω) | Must operate voltage (V) | Must release voltage (V) | Max. voltage (V) | Power consumption (VA, W) |
|------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|--------------------|-----------|---------------------|--------------------------|--------------------------|------------------|---------------------------|
| Classification                                                                                                                                       | Rated voltage | 50 Hz              | 60 Hz     |                     |                          |                          |                  |                           |
| <ul style="list-style-type: none"><li>Standard</li><li>Quick-connect</li><li>Fully sealed</li><li>High-capacity</li></ul>                            | 12 VAC        | 93                 | 75        | 65                  | 80% max.                 | 30% min.                 | 140% (at 23°C)   | Approx. 0.9 (60 Hz)       |
|                                                                                                                                                      | 24 VAC        | 46.5               | 37.5      | 260                 |                          |                          |                  |                           |
|                                                                                                                                                      | 100/(110) VAC | 11                 | 9/(10.6)  | 4,600               |                          |                          |                  |                           |
|                                                                                                                                                      | 200/(220) VAC | 5.5                | 4.5/(5.3) | 20,200              |                          |                          |                  |                           |
| <ul style="list-style-type: none"><li>Standard</li><li>High-capacity</li><li>Bifurcated contact</li><li>Quick-connect</li><li>Fully sealed</li></ul> | 5 VDC         | 106                |           | 47                  | 70% max.                 | 15% min.                 | 170% (at 23°C)   | Approx. 0.53              |
|                                                                                                                                                      | 6 VDC         | 88.2               |           | 68                  |                          |                          |                  |                           |
|                                                                                                                                                      | 12 VDC        | 43.6               |           | 275                 |                          |                          |                  |                           |
|                                                                                                                                                      | 24 VDC        | 21.8               |           | 1,100               |                          |                          |                  |                           |
|                                                                                                                                                      | 48 VDC        | 11.5               |           | 4,170               |                          |                          |                  |                           |
|                                                                                                                                                      | 100 VDC       | 5.3                |           | 18,870              |                          |                          |                  |                           |
| <ul style="list-style-type: none"><li>High-sensitivity</li></ul>                                                                                     | 5 VDC         | 71.4               |           | 70                  | 70% max.                 | 15% min.                 | 170% (at 23°C)   | Approx. 0.36              |
|                                                                                                                                                      | 6 VDC         | 60                 |           | 100                 |                          |                          |                  |                           |
|                                                                                                                                                      | 12 VDC        | 30                 |           | 400                 |                          |                          |                  |                           |
|                                                                                                                                                      | 24 VDC        | 15                 |           | 1,600               |                          |                          |                  |                           |
|                                                                                                                                                      | 48 VDC        | 7.5                |           | 6,400               |                          |                          |                  |                           |

Note 1. The rated current and coil resistance are measured at a coil temperature of 23°C with a tolerance of +15%/-20% (AC rated current) or ±10% (DC coil resistance).  
2. AC coil resistances shown above are only reference values.  
3. The operating characteristics are measured at a coil temperature of 23°C.  
4. The "Max. voltage" is the maximum voltage that can be applied to the relay coil.

● Coil: Double-winding Latching Relays

| Item          | Set Coil           |                     | Reset coil         |                     | Must set voltage (V) | Must reset voltage (V) | Max. voltage (V)  | Power consumption |                 |
|---------------|--------------------|---------------------|--------------------|---------------------|----------------------|------------------------|-------------------|-------------------|-----------------|
|               | Rated current (mA) | Coil resistance (Ω) | Rated current (mA) | Coil resistance (Ω) | % of rated voltage   |                        |                   | Set Coil (mW)     | Reset coil (mW) |
| Rated voltage |                    |                     |                    |                     |                      |                        |                   |                   |                 |
| 5 VDC         | 167                | 30                  | 119                | 42                  | 70% max.             | 70% max.               | 140%<br>(at 23°C) | Approx.<br>850    | Approx.<br>600  |
| 6 VDC         | 138                | 43.5                | 100                | 60                  |                      |                        |                   |                   |                 |
| 12 VDC        | 70.6               | 170                 | 50                 | 240                 |                      |                        |                   |                   |                 |
| 24 VDC        | 34.6               | 694                 | 25                 | 960                 |                      |                        |                   |                   |                 |

Note 1. The rated current and coil resistance are measured at a coil temperature of 23°C with a tolerance of ±10%.  
2. The operating characteristics are measured at a coil temperature of 23°C.  
3. The "Max. voltage" is the maximum voltage that can be applied to the relay coil.