

# Product datasheet

Specifications



## Interface plug-in relay, 5 A, 2 CO, lockable test button, 24 V DC

Local distributor code: 403006164    RXG21BD

### Main

|                               |                                  |
|-------------------------------|----------------------------------|
| Range of product              | Harmony Electromechanical Relays |
| Series name                   | Interface relay                  |
| Product or component type     | Plug-in relay                    |
| Device short name             | RXG                              |
| Contacts type and composition | 2 C/O                            |

### Complementary

|                                              |                                                                                                                                                                       |
|----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Status LED                                   | Without                                                                                                                                                               |
| Contacts material                            | Silver alloy (AgSnO2In2O3)                                                                                                                                            |
| Maximum contact resistance                   | 100 mOhm                                                                                                                                                              |
| [Ithe] conventional enclosed thermal current | 5 A at -40...55 °C                                                                                                                                                    |
| [Ie] rated operational current               | 5 A at 30 V (DC) conforming to UL<br>5 A at 30 V (DC) conforming to IEC<br>5 A at 250 V (AC) conforming to IEC<br>5 A at 250 V (AC) conforming to UL                  |
| Maximum switching voltage                    | 250 V AC<br>30 V DC                                                                                                                                                   |
| Load current                                 | 5 A at 250 V AC                                                                                                                                                       |
| Maximum switching capacity                   | 1250 VA                                                                                                                                                               |
| Minimum switching capacity                   | 50 mW at 10 mA, 5 V DC                                                                                                                                                |
| Operating rate                               | <= 1800 cycles/hour under load<br><= 18000 cycles/hour no-load                                                                                                        |
| Utilisation coefficient                      | 20 %                                                                                                                                                                  |
| Mechanical durability                        | 10000000 cycles                                                                                                                                                       |
| Electrical durability                        | 100000 cycles for NO resistive load at 55 °C<br>100000 cycles for NC resistive load at 55 °C                                                                          |
| [Ui] rated insulation voltage                | 250 V conforming to IEC<br>300 V conforming to CSA<br>300 V conforming to UL                                                                                          |
| [Uimp] rated impulse withstand voltage       | 6 kV 1.2/50 µs                                                                                                                                                        |
| Dielectric strength                          | 1000 V AC between contacts with micro disconnection<br>5000 V AC between coil and contact with reinforced insulation<br>3000 V AC between poles with basic insulation |
| Coil resistance                              | 1100 Ohm +/- 10 %                                                                                                                                                     |

|                              |                        |
|------------------------------|------------------------|
| Insulation resistance        | 1000 MOhm at 500 V DC  |
| Test levels                  | Level A group mounting |
| Mounting position            | Any position           |
| Drop-out voltage threshold   | >= 0.1 Uc DC           |
| Coil insulation class        | Class F                |
| Operate time                 | 20 ms                  |
| Release time                 | 20 ms                  |
| [Uc] control circuit voltage | 24 V DC                |
| Safety reliability data      | B10d = 100000          |
| Colour of cover              | Standard               |
| Control type                 | Lockable test button   |
| Local signalling             | Flag                   |
| Torque value                 | 0.8 N.m                |
| Net weight                   | 0.02 kg                |
| Device presentation          | Complete product       |

## Environment

|                                       |                                                                                                                                |
|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Vibration resistance                  | 3 gn, amplitude = +/- 0.75 mm (f = 10...150 Hz)in operation<br>5 gn, amplitude = +/- 0.75 mm (f = 10...150 Hz)not in operation |
| IP degree of protection               | IP40                                                                                                                           |
| Shock resistance                      | 20 gn in operation<br>100 gn not in operation                                                                                  |
| Protection category                   | RT I                                                                                                                           |
| Standards                             | UL 508<br>IEC 61810-1<br>CSA C22.2 No 14                                                                                       |
| Product certifications                | CSA<br>UL<br>EAC<br>CE                                                                                                         |
| Pollution degree                      | 2                                                                                                                              |
| Overvoltage category                  | III                                                                                                                            |
| Ambient air temperature for storage   | -40...85 °C                                                                                                                    |
| Ambient air temperature for operation | -40...70 °C                                                                                                                    |
| Relative humidity                     | 10...85 %                                                                                                                      |

## Packing Units

|                              |          |
|------------------------------|----------|
| Unit Type of Package 1       | PCE      |
| Number of Units in Package 1 | 1        |
| Package 1 Weight             | 20.4 g   |
| Package 1 Height             | 2.89 cm  |
| Package 1 width              | 1.27 cm  |
| Package 1 Length             | 3.452 cm |

## Offer Sustainability

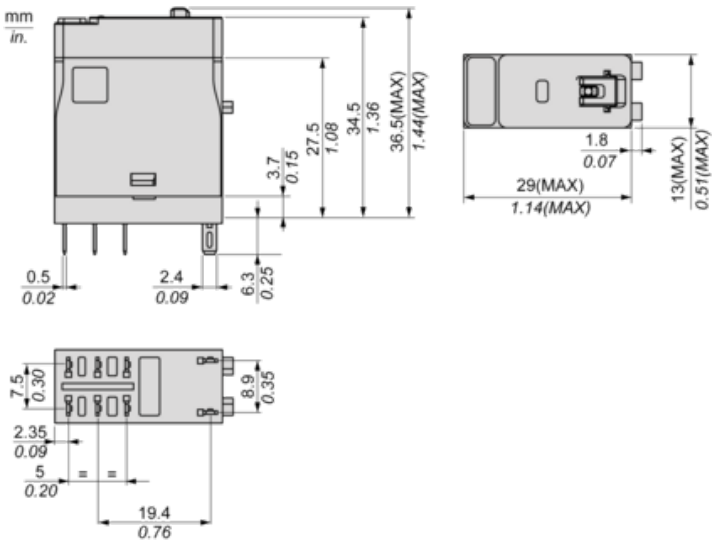
|                          |                       |
|--------------------------|-----------------------|
| Sustainable offer status | Green Premium product |
|--------------------------|-----------------------|

|                            |                                                                                                   |
|----------------------------|---------------------------------------------------------------------------------------------------|
| REACH Regulation           | <a href="#">REACH Declaration</a>                                                                 |
| REACH free of SVHC         | Yes                                                                                               |
| EU RoHS Directive          | Pro-active compliance (Product out of EU RoHS legal scope)<br><a href="#">EU RoHS Declaration</a> |
| Toxic heavy metal free     | Yes                                                                                               |
| Mercury free               | Yes                                                                                               |
| RoHS exemption information | <a href="#">Yes</a>                                                                               |
| China RoHS Regulation      | <a href="#">China RoHS declaration</a>                                                            |
| Environmental Disclosure   | <a href="#">Product Environmental Profile</a>                                                     |

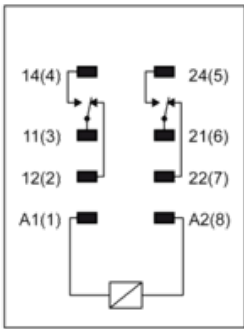
**Contractual warranty**

|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

Dimensions

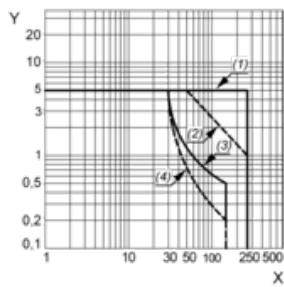


Wiring Diagram



Performance Curves

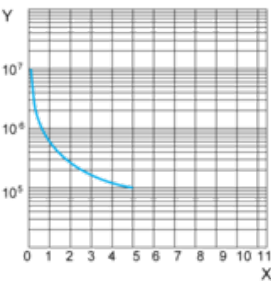
Maximum Switching Capacity



- X : Switching voltage (V)  
Y : Switching current (A)  
(1) AC Resistive Load  
(2) AC Inductive Load cos(φ)=0.4  
(3) DC Resistive Load  
(4) DC Inductive Load (L/R=7ms)

Life Expectancy

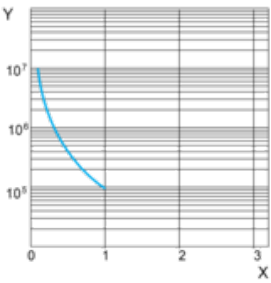
Resistive Load



- X : Contact Current (A)  
Y : Operating Cycle Number

Life Expectancy

Inductive Load

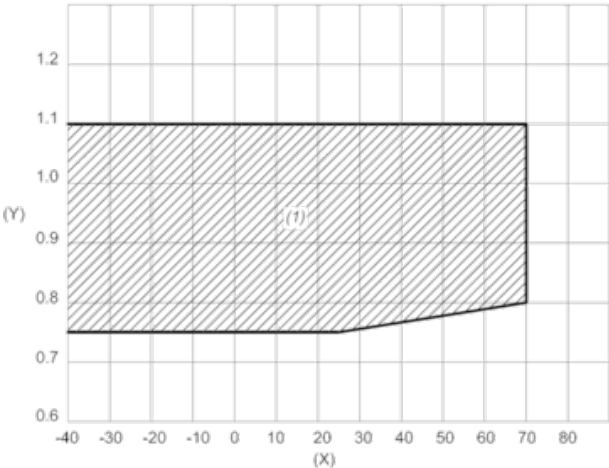


- X : Contact Current (A)  
Y : Operating Cycle Number

**NOTE:** These are typical curves, actual durability depends on load, environment, duty cycle, etc.

Coil Operating Range

DC Coil Operating Range VS Ambient Temperature



X : Ambient temperature (°C)  
Y : Coil voltage (U/Uc)  
(1) Permitted operating range area