

## RXG23ED

interface plug-in relay - Zelio RXG - 2 C/O standard -  
48 V DC - 5 A - with LED



### Main

|                               |                 |
|-------------------------------|-----------------|
| Range of product              | Zelio Relay     |
| 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                                   | With                                                                                                                                                         |
| Contacts material                            | Silver alloy (AgSnO <sub>2</sub> In <sub>2</sub> O <sub>3</sub> )                                                                                            |
| Contact resistance                           | 100 mOhm                                                                                                                                                     |
| [Ithe] conventional enclosed thermal current | 5 A (temperature : -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                               | <= 18000 cycles/hour no-load<br><= 1800 cycles/hour under 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 UL<br>300 V conforming to CSA                                                                                 |
| [Uimp] rated impulse withstand voltage       | 6 kV for 1.2/50 µs                                                                                                                                           |
| Dielectric strength                          | 5000 V AC (reinforced insulation between coil and contact)<br>3000 V AC (basic insulation between poles)<br>1000 V AC (micro disconnection between contacts) |
| Resistance                                   | 4400 Ohm +/- 10 %                                                                                                                                            |
| Insulation resistance                        | 1000 MOhm at 500 V DC                                                                                                                                        |
| Mounting position                            | Any position                                                                                                                                                 |
| Drop-out voltage threshold                   | >= 0.1 Uc DC                                                                                                                                                 |
| Electrical insulation class                  | Class F                                                                                                                                                      |
| Operating time                               | 20 ms                                                                                                                                                        |
| Reset time                                   | 20 ms                                                                                                                                                        |
| [Uc] control circuit voltage                 | 48 V DC                                                                                                                                                      |
| Safety reliability data                      | B10d = 100000                                                                                                                                                |
| Colour of cover                              | Standard                                                                                                                                                     |
| Local signalling                             | Flag                                                                                                                                                         |
| Product weight                               | 0.02 kg                                                                                                                                                      |

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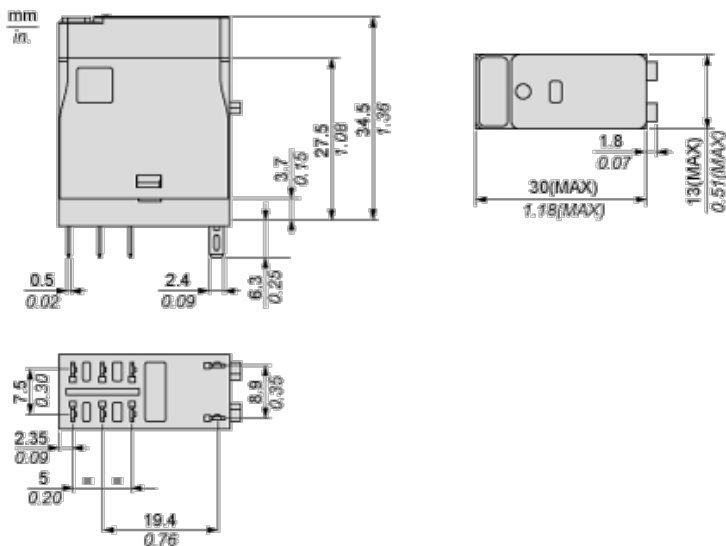
## Environment

|                                       |                                                                                                                                  |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| vibration resistance                  | 3 gn (f = 10...150 Hz), amplitude +/- 0.75 mm (in operation)<br>5 gn (f = 10...150 Hz), amplitude +/- 0.75 mm (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>CSA C22.2 No 14<br>IEC 61810-1                                                                                         |
| product certifications                | CE<br>CSA<br>RoHS<br>UL<br>REACH<br>EAC<br>China RoHS                                                                            |
| 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 %                                                                                                                        |
| torque value                          | 0.8 N.m                                                                                                                          |

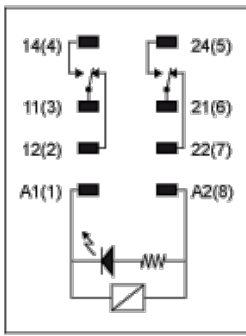
## Offer Sustainability

|                                  |                                                                       |
|----------------------------------|-----------------------------------------------------------------------|
| Sustainable offer status         | Green Premium product                                                 |
| RoHS (date code: YYWW)           | Compliant - since 1426 - Schneider Electric declaration of conformity |
| REACH                            | Reference not containing SVHC above the threshold                     |
| Product environmental profile    | Available                                                             |
| Product end of life instructions | Need no specific recycling operations                                 |

## Dimensions

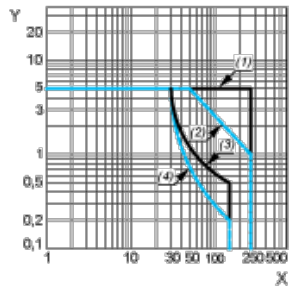


## Wiring Diagram



## Performance Curves

### Maximum Switching Capacity



X : Switching voltage (V)

Y : Switching current (A)

(1) AC Resistive Load

(2) AC Inductive Load  $\cos(\phi)=0.4$

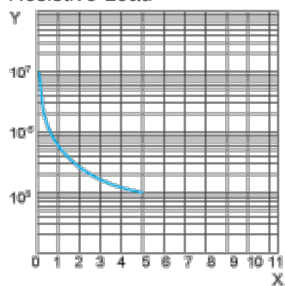
(3) DC Resistive Load

(4) DC Inductive Load  $T0.95=6P$

## Performance Curves

### Life Expectancy

Resistive Load



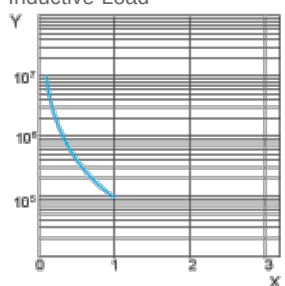
X : Contact Current (A)

Y : Operating Cycle Number

## Performance Curves

### Life Expectancy

Inductive Load



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