

# RXG25ND

interface plug-in relay - Zelio RXG - 2 C/O clear -  
60 V DC - 5 A



Price\* : 4.57 GBP



## 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

|                                                          |                                                                                                                                                      |
|----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| Contacts material                                        | Silver alloy (AgSnO <sub>2</sub> In <sub>2</sub> O <sub>3</sub> )                                                                                    |
| Maximum contact resistance                               | 100 mOhm                                                                                                                                             |
| [I <sub>th</sub> ] conventional enclosed thermal current | 5 A at -40...55 °C                                                                                                                                   |
| [I <sub>e</sub> ] 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                                                         |
| [U <sub>i</sub> ] 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                        | 6700 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           | 60 V DC                                                                                                                                                               |
| Safety reliability data                | B10d = 100000                                                                                                                                                         |
| Colour of cover                        | Transparent                                                                                                                                                           |
| Torque value                           | 0.8 N.m                                                                                                                                                               |
| Product weight                         | 0.018 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                             | CSA C22.2 No 14<br>IEC 61810-1<br>UL 508                                                                                       |
| Product certifications                | REACH<br>RoHS<br>UL<br>China RoHS<br>CSA<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 %                                                                                                                      |

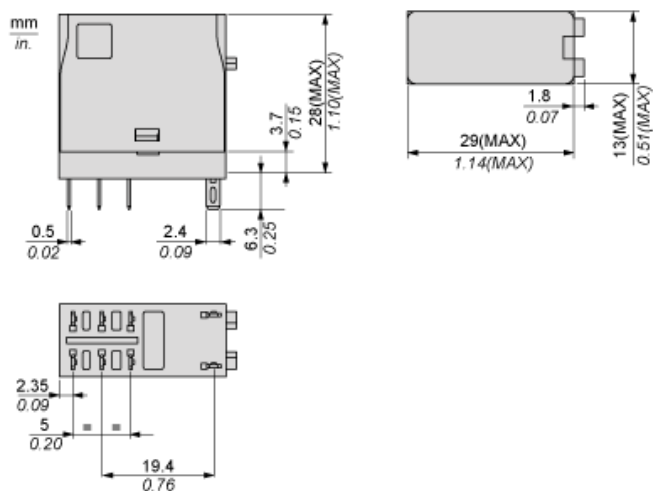
## Offer Sustainability

|                            |                                                                                                   |
|----------------------------|---------------------------------------------------------------------------------------------------|
| Sustainable offer status   | Green Premium product                                                                             |
| 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>                                                     |
| Circularity Profile        | No need of specific recycling operations                                                          |

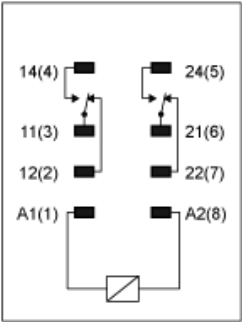
## Contractual warranty

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

## Dimensions

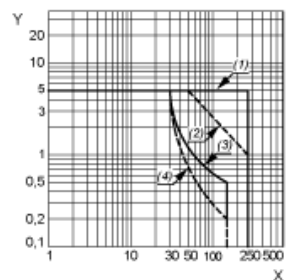


Wiring Diagram



## Performance Curves

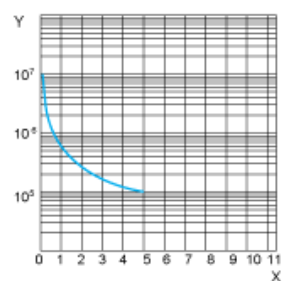
### Maximum Switching Capacity



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

### Life Expectancy

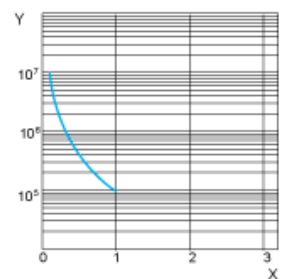
#### Resistive Load



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

### Life Expectancy

#### Inductive Load

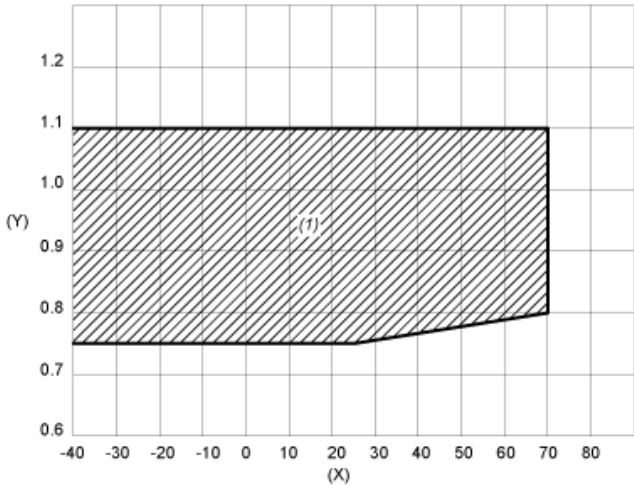


- X : Contact Current (A)  
Y : Operating Cycle Number

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