



## Main

Range of product	Harmony Relay
Series name	Interface relay
Product or component type	Plug-in relay
Device short name	RXG
Contacts type and composition	1 C/O

## Complementary

Status LED	With
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	10 A
[I <sub>e</sub> ] rated operational current	10 A 30 V DC) UL 10 A 30 V DC) IEC 10 A 250 V AC) IEC 10 A 250 V AC) UL
Maximum switching voltage	250 V
Load current	10 A
Maximum switching capacity	2500 VA AC 300 W DC
Minimum switching capacity	500 mW 100 mA, 5 V DC
Operating rate	<= 1800 cycles/hour under load <= 18000 cycles/hour no-load
Utilisation coefficient	20 %
Mechanical durability	10000000 cycles
Electrical durability	100000 cycles resistive
[U <sub>i</sub> ] rated insulation voltage	250 V IEC
[U <sub>imp</sub> ] rated impulse withstand voltage	6 kV 1.2/50 µs between coil and contact 1.2 kV 1.2/50 µs between contacts 2.5 kV 1.2/50 µs between terminals and LTB area 1.5 kV 1.2/50 µs between terminals and base
Dielectric strength	1000 V AC between contacts micro disconnection 1300 V between terminals and base basic insulation 3000 V between terminals and LTB area basic insulation 5000 V AC between coil and contact reinforced insulation
Coil resistance	1100 Ohm +/- 10 %
Insulation resistance	1000 MOhm 500 V DC
Test levels	Level A
Mounting position	Any position
Average coil consumption	0.53 W DC
Drop-out voltage threshold	>= 0.1 U <sub>c</sub> DC
Coil insulation class	Class F
Operate time	20 ms
Release time	20 ms
[U <sub>c</sub> ] control circuit voltage	24 V DC

Safety reliability data	B10d = 100000
Colour of cover	Transparent
Torque value	7.08 Lbf.In (0.8 N.m) 7.0 lbf.in (0.79 N.m)
Connections - terminals	Connector, 1 x 0.25...1 x 2.5 mm² AWG 22...AWG 14) flexible with cable end Connector, 2 x 0.25...2 x 1 mm² AWG 22...AWG 17) flexible with cable end Connector, 1 x 0.5...1 x 2.5 mm² AWG 20...AWG 14) solid without cable end Connector, 2 x 0.5...2 x 1.5 mm² AWG 20...AWG 16) solid without cable end
Net Weight	0.13 lb(US) (0.058 kg)
Device presentation	Complete product

## Environment

Vibration resistance	3 gn +/- 1.5 mm 10...150 Hz)in operation 5 gn +/- 1.5 mm 10...150 Hz)not in operation
IP degree of protection	IP20
Shock resistance	20 gn in operation 100 gn not in operation
Protection category	RT I
Standards	IEC 61810-1 CSA C22.2 No 14 UL 508 IEC 61984
Product certifications	EAC RoHS CSA UL CE
Pollution degree	2
Overvoltage category	III
Ambient air temperature for storage	-40...185 °F (-40...85 °C)
Ambient air temperature for operation	-40...158 °F (-40...70 °C)
Relative humidity	10...85 %



## Ordering and shipping details


Category	21127 - ZELIO ICE CUBE RELAYS
Discount Schedule	CP2
GTIN	03606489562830
Nbr. of units in pkg.	1
Package weight(Lbs)	1 lb(US) (0.45 kg)
Returnability	No

## Packing Units

Package 1 Height	3.13 in (79.600 mm)
Package 1 width	0.61 in (15.600 mm)
Package 1 Length	2.83 in (72.000 mm)

## Offer Sustainability

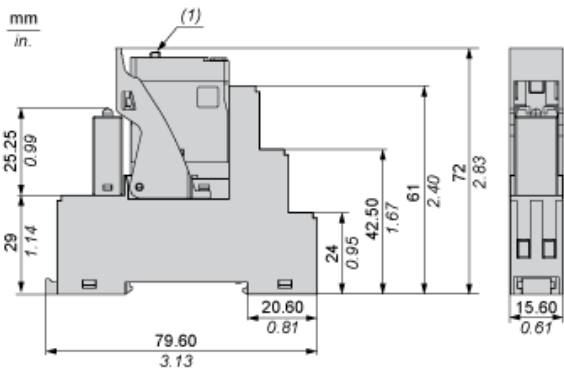
Sustainable offer status	Green Premium product
California proposition 65	WARNING: This product can expose you to chemicals including: Nickel compounds, which is known to the State of California to cause cancer, and Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>
REACH free of SVHC	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)  <a href="#">EU RoHS Declaration</a>
Toxic heavy metal free	Yes
Mercury free	Yes
RoHS exemption information	 Yes

China RoHS Regulation	<a href="#"> China RoHS Declaration</a>
Environmental Disclosure	<a href="#"> Product Environmental Profile</a>
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

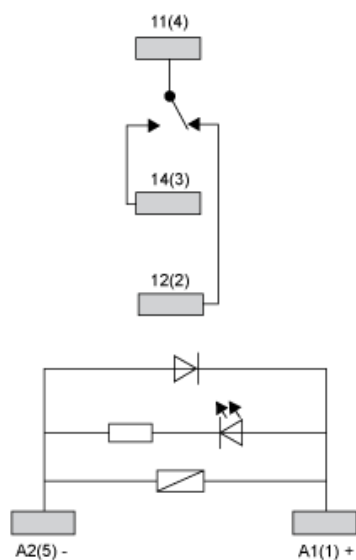
### Contractual warranty

Warranty	18 months
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Dimensions



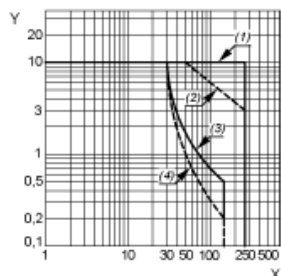
## Wiring Diagram



NOTE: For DC input , A1 have to be + , otherwise it would short circuit from protection module

## Performance Curves

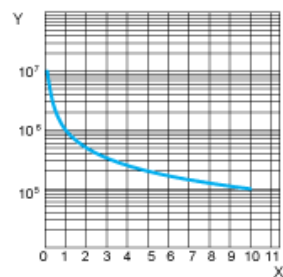
### Maximum Switching Capacity



- 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

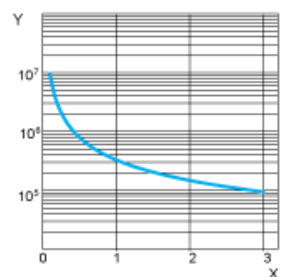
#### Resistive Load



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

### Life Expectancy

#### Inductive Load

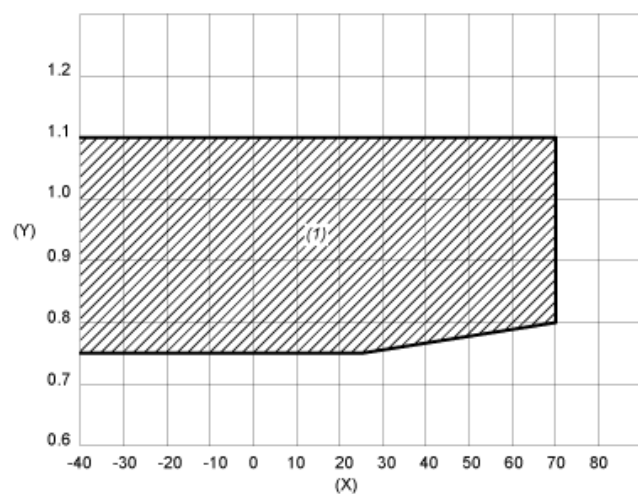


- X : Contact Current (A)  
Y : Operating Cycle Number

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 ( $U/U_c$ )

(1) Permitted operating range area

# Mouser Electronics

Authorized Distributor

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