

# Product data sheet

Specifications



interface plug in relay, Harmony Electromechanical Relays, 10A, 1CO, with LED, lockable test button, 24V DC

RXG12BD

**Product availability : Stock - Normally stocked in distribution facility**

## 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	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> e] conventional enclosed thermal current	10 A -40...131 °F (-40...55 °C)
[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 AC 30 V DC
Load current	10 A 250 V AC
Maximum switching capacity	2500 VA
Minimum switching capacity	500 mW at 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 NO resistive at 55 °C 100000 cycles NC resistive at 55 °C
[U <sub>i</sub> ] rated insulation voltage	250 V IEC 300 V CSA 300 V UL
[U <sub>imp</sub> ] rated impulse withstand voltage	6 kV 1.2/50 μs
Dielectric strength	1000 V AC between contacts with micro disconnection 5000 V AC between coil and contact with reinforced insulation

Coil resistance	1100 Ohm +/- 10 %
Insulation resistance	1000 MOhm at 500 V DC
Test levels	Level A
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	7.08 lbf.in (0.8 N.m)
Net Weight	0.04 lb(US) (0.02 kg)
Device presentation	Complete product

## Environment

Vibration resistance	3 gn +/- 0.75 mm 10...150 Hz)in operation 5 gn +/- 0.75 mm 10...150 Hz)not in operation
IP Degree of Protection	IP40
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
Product Certifications	CSA CE EAC UL DNV-GL
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	3606480688737
Returnability	Yes
Country of origin	CN

## Packing Units

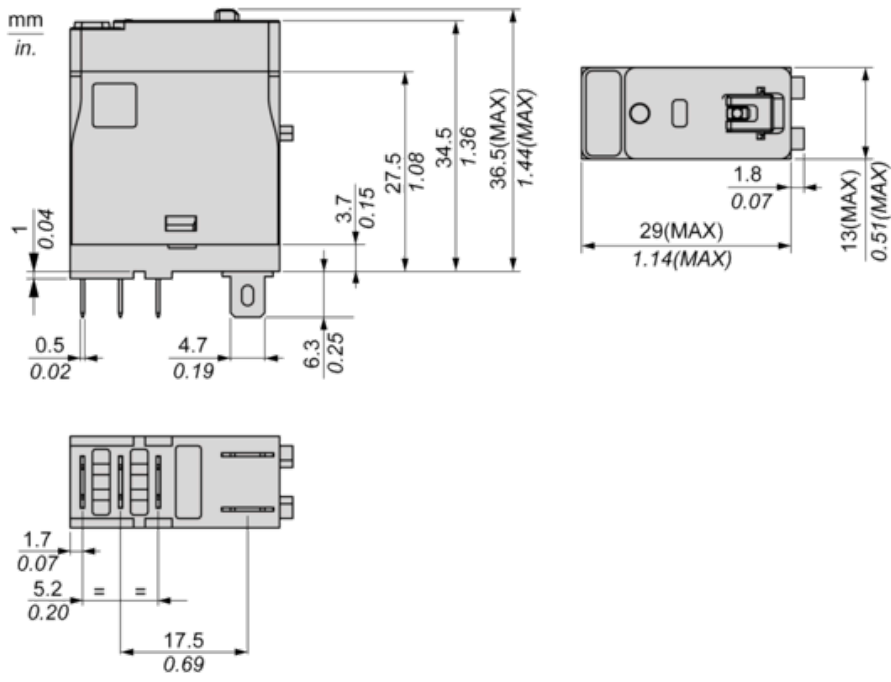
Unit Type of Package 1	PCE
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<b>Number of Units in Package 1</b>	1
<b>Package 1 Height</b>	1.14 in (2.89 cm)
<b>Package 1 Width</b>	0.50 in (1.27 cm)
<b>Package 1 Length</b>	1.36 in (3.452 cm)
<b>Package 1 Weight</b>	0.74 oz (20.87 g)
<b>Unit Type of Package 2</b>	BB1
<b>Number of Units in Package 2</b>	10
<b>Package 2 Height</b>	1.36 in (3.45 cm)
<b>Package 2 Width</b>	3.60 in (9.15 cm)
<b>Package 2 Length</b>	3.23 in (8.2 cm)
<b>Package 2 Weight</b>	14.42 oz (408.7 g)
<b>Unit Type of Package 3</b>	S01
<b>Number of Units in Package 3</b>	200
<b>Package 3 Height</b>	5.91 in (15 cm)
<b>Package 3 Width</b>	5.91 in (15 cm)
<b>Package 3 Length</b>	15.75 in (40 cm)
<b>Package 3 Weight</b>	9.76 lb(US) (4.426 kg)

## Offer Sustainability

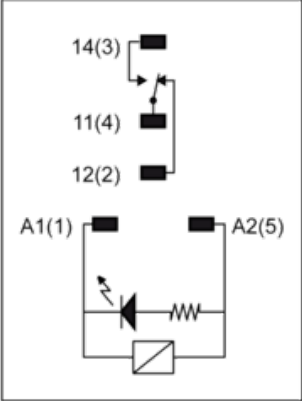
<b>Sustainable offer status</b>	Green Premium product
<b>California proposition 65</b>	WARNING: This product can expose you to chemicals including: Nickel compounds, which is known to the State of California to cause cancer, and Di-isodecyl phthalate (DIDP), which is known to the State of California 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>
<b>REACH Regulation</b>	<a href="#">REACH Declaration</a>
<b>REACH free of SVHC</b>	Yes
<b>EU RoHS Directive</b>	Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>
<b>Toxic heavy metal free</b>	Yes
<b>Mercury free</b>	Yes
<b>China RoHS Regulation</b>	<a href="#">China RoHS declaration</a>
<b>RoHS exemption information</b>	<a href="#">Yes</a>
<b>Environmental Disclosure</b>	<a href="#">Product Environmental Profile</a>

**Dimensions**



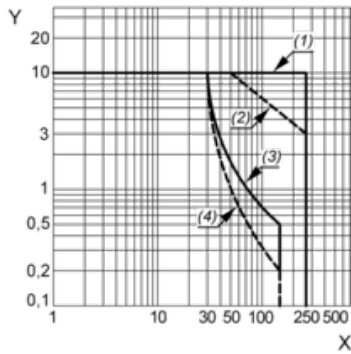
Wiring Diagram

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**Performance Curves**

**Maximum Switching Capacity**



X : Switching voltage (V)

Y : Switching current (A)

(1) AC Resistive Load

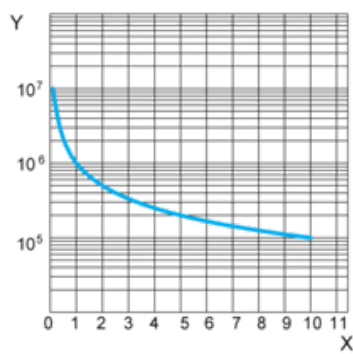
(2) AC Inductive Load  $\cos(\phi)=0.4$

(3) DC Resistive Load

(4) DC Inductive Load (L/R=7ms)

**Life Expectancy**

Resistive Load

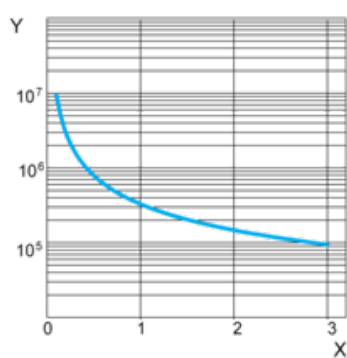


X : Contact Current (A)

Y : Operating Cycle Number

**Life Expectancy**

Inductive Load



X : Contact Current (A)

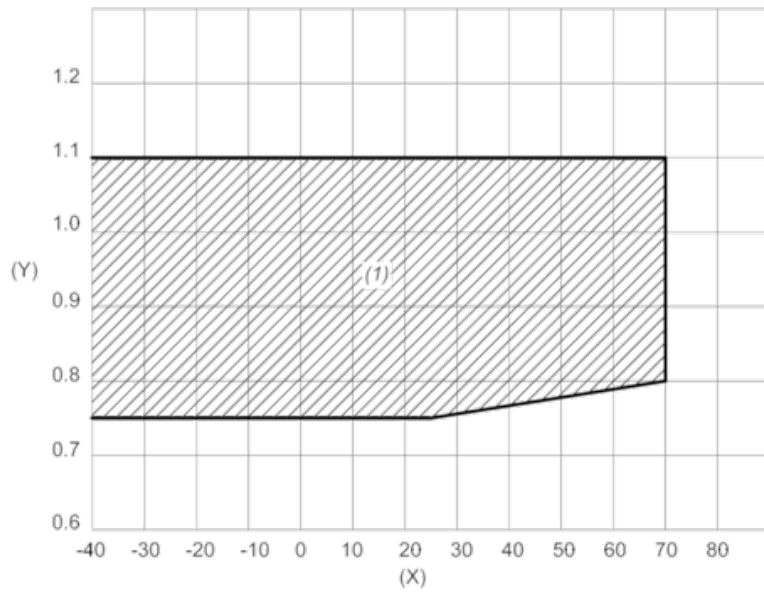
Y : Operating Cycle Number

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

Coil Operating Range

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DC Coil Operating Range VS Ambient Temperature



X : Ambient temperature (°C)

Y : Coil voltage (U/Uc)

(1) Permitted operating range area

Recommended replacement(s)