Specifications



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

RXG21BD

M	ai	n	

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

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Status LED	Without
Contacts material	Silver alloy (AgSnO2In2O3)
Maximum contact resistance	100 mOhm
[Ithe] conventional enclosed thermal current	5 A at -4055 °C
[le] rated operational current	5 A at 30 V (DC) conforming to UL 5 A at 30 V (DC) conforming to IEC 5 A at 250 V (AC) conforming to IEC 5 A at 250 V (AC) conforming to UL
Maximum switching voltage	250 V AC 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 <= 18000 cycles/hour no-load
Utilisation coefficient	20 %
Mechanical durability	1000000 cycles
Electrical durability	100000 cycles for NO resistive load at 55 °C 100000 cycles for NC resistive load at 55 °C
[Ui] rated insulation voltage	250 V conforming to IEC 300 V conforming to CSA 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 5000 V AC between coil and contact with reinforced insulation 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 = 10150 Hz)in operation 5 gn, amplitude = +/- 0.75 mm (f = 10150 Hz)not in operation
IP degree of protection	IP40
Shock resistance	20 gn in operation 100 gn not in operation
Protection category	RTI
Standards	UL 508 IEC 61810-1 CSA C22.2 No 14
Product certifications	CSA CE EAC UL DNV-GL
Pollution degree	2
Overvoltage category	III
Ambient air temperature for storage	-4085 °C
Ambient air temperature for operation	-4070 °C
Relative humidity	1085 %
Packing Units	
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	2.89 cm
Package 1 Width	1.27 cm
Package 1 Length	3.452 cm
Package 1 Weight	20.4 g

## **Offer Sustainability**

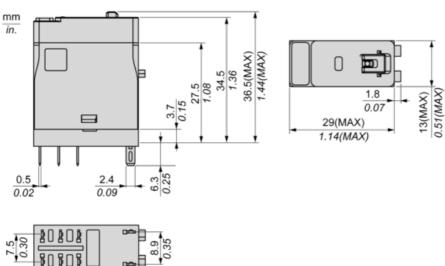
Sustainable offer status

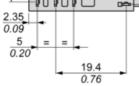
Green Premium product

REACh Regulation	REACh Declaration
REACh free of SVHC	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Toxic heavy metal free	Yes
Mercury free	Yes
China RoHS Regulation	China RoHS declaration
RoHS exemption information	Yes
Environmental Disclosure	Product Environmental Profile
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 www.P65Warnings.ca.gov

**Dimensions Drawings** 

## Dimensions

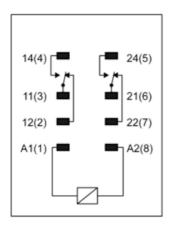




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Connections and Schema

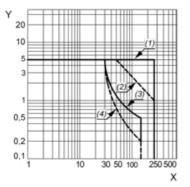
## Wiring Diagram



Performance Curves

#### **Performance Curves**

#### **Maximum Switching Capacity**



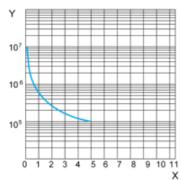
X : Switching voltage (V)

Y : Switching current (A)

- (1) AC Resistive Load
- (2) AC Inductive Load cos(Ø)=0.4
- (3) DC Resistive Load
- (4) DC Inductive Load (L/R=7ms)

## Life Expectancy



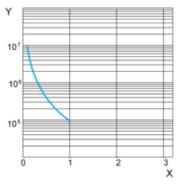


X : Contact Current (A)

Y: Operating Cycle Number

#### Life Expectancy

Inductive Load



X : Contact Current (A)

Y : Operating Cycle Number

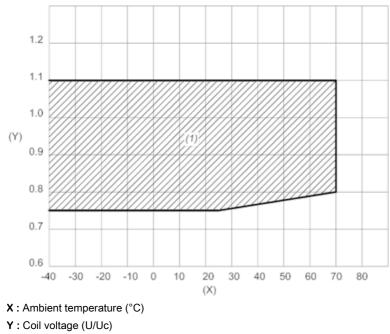
NOTE: These are typical curves, actual durability depends on load, environment, duty cycle, etc.



Performance Curves

## **Coil Operating Range**

#### DC Coil Operating Range VS Ambient Temperature



(1) Permitted operating range area

Recommended replacement(s)