

# Product datasheet

Specifications



## Interface plug-in relay, 10 A, 1 CO, LED, 6 V DC

RXG13RD

! Discontinued on: 01 October 2020

! Discontinued

### 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 at -40...55 °C
[I <sub>e</sub> ] rated operational current	10 A at 30 V (DC) conforming to UL 10 A at 30 V (DC) conforming to IEC 10 A at 250 V (AC) conforming to IEC 10 A at 250 V (AC) conforming to UL
Maximum switching voltage	250 V AC 30 V DC
Load current	10 A at 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 for NO resistive load at 55 °C 100000 cycles for NC resistive load at 55 °C
[U <sub>i</sub> ] rated insulation voltage	250 V conforming to IEC 300 V conforming to CSA 300 V conforming to UL
Dielectric strength	1000 V AC between contacts with micro disconnection 5000 V AC between coil and contact with reinforced insulation
Coil resistance	68 Ohm +/- 10 %
Insulation resistance	1000 MOhm at 500 V DC

Test levels	Level A group mounting
Mounting position	Any position
Drop-out voltage threshold	$\geq 0.1 U_c$ DC
Coil insulation class	Class F
Operate time	20 ms
Release time	20 ms
[Uc] control circuit voltage	6 V DC
Safety reliability data	B10d = 100000
Colour of cover	Standard
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 = 10...150 Hz)in operation 5 gn, amplitude = +/- 0.75 mm (f = 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 UL 508 CSA C22.2 No 14
Product certifications	UL EAC CE CSA
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 %

## Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1

## Offer Sustainability

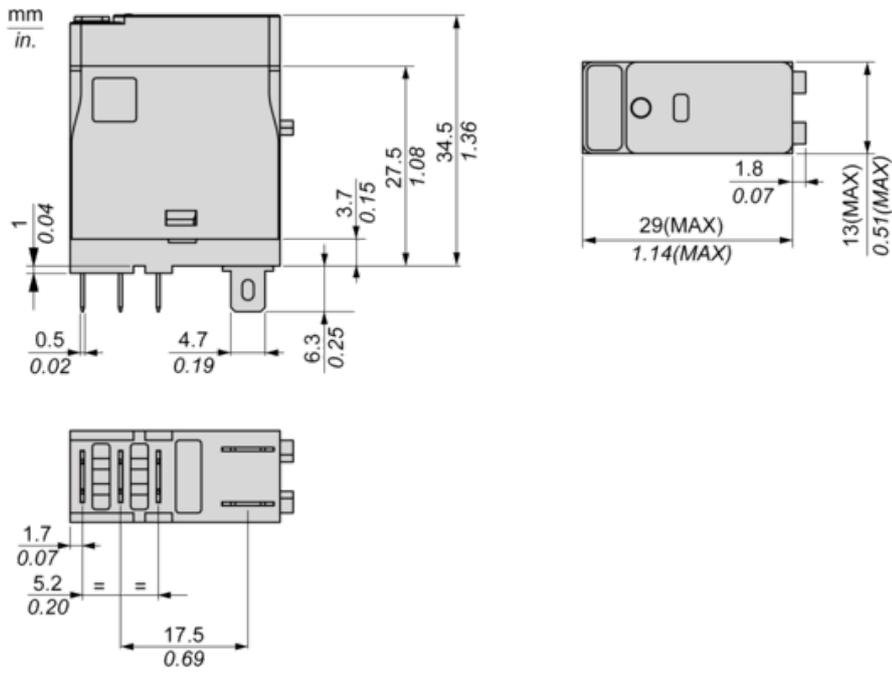
Sustainable offer status	Green Premium product
REACH Regulation	<a href="#">REACH Declaration</a>
REACH free of SVHC	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>
Toxic heavy metal free	Yes
Mercury free	Yes
China RoHS Regulation	<a href="#">China RoHS declaration</a>

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<b>RoHS exemption information</b>	<a href="#">Yes</a>
<b>Environmental Disclosure</b>	<a href="#">Product Environmental Profile</a>
<b>Circularity Profile</b>	No need of specific recycling operations

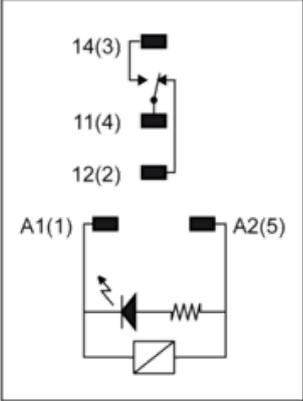
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## Dimensions



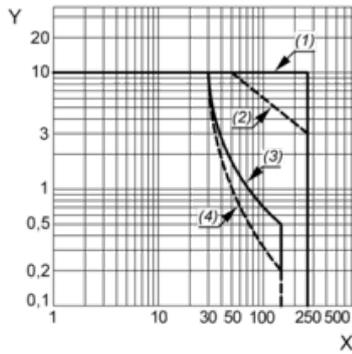
Wiring Diagram

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**Performance Curves**

**Maximum Switching Capacity**



X : Switching voltage (V)

Y : Switching current (A)

(1) AC Resistive Load

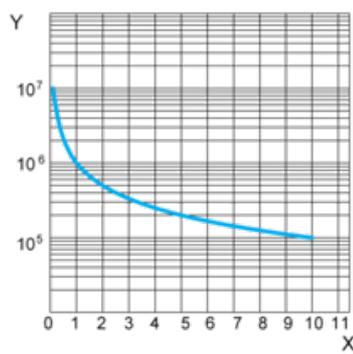
(2) AC Inductive Load  $\cos(\phi)=0.4$

(3) DC Resistive Load

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

**Life Expectancy**

Resistive Load

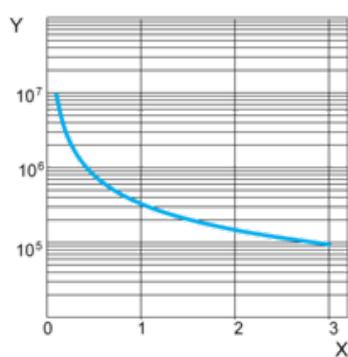


X : Contact Current (A)

Y : Operating Cycle Number

**Life Expectancy**

Inductive Load



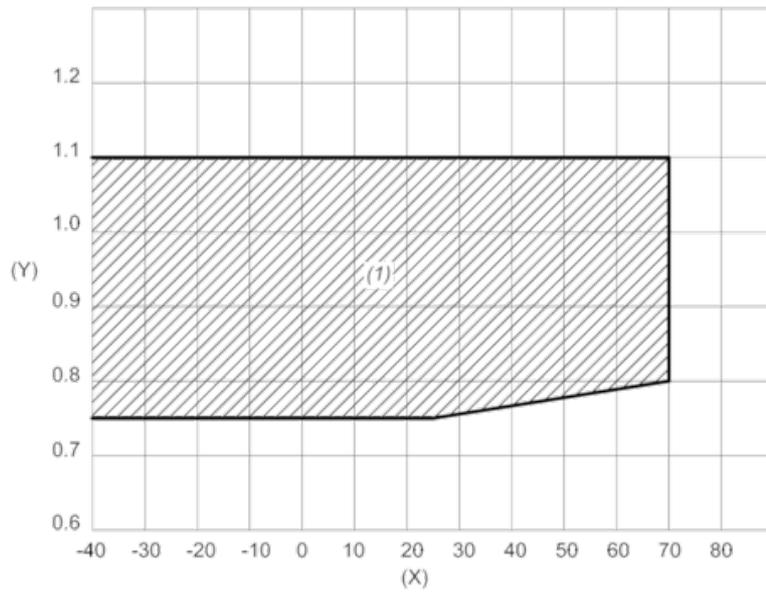
X : Contact Current (A)

Y : Operating Cycle Number

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

Coil Operating Range

DC Coil Operating Range VS Ambient Temperature



X : Ambient temperature (°C)

Y : Coil voltage (U/Uc)

(1) Permitted operating range area

Recommended replacement(s)

RXG13RD is replaced by the following product range:



Zelio Electromechanical Relay

Plug-in relays

Products: 228