

# RXG12ED

interface plug-in relay - Zelio RXG - 1C/O standard - 48VDC-10A-with LTB and LED



## 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	1 C/O

## Complementary

Status LED	With
Contacts material	Silver alloy (AgSnO <sub>2</sub> In <sub>2</sub> O <sub>3</sub> )
Contact resistance	100 mOhm
[I <sub>th</sub> e] conventional enclosed thermal current	10 A (temperature : -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	<= 18000 cycles/hour no-load <= 1800 cycles/hour under 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 UL 300 V conforming to CSA
[U <sub>imp</sub> ] rated impulse withstand voltage	6 kV for 1.2/50 µs
Dielectric strength	5000 V AC (reinforced insulation between coil and contact) 1000 V AC (micro disconnection between contacts)
Resistance	4400 Ohm +/- 10 %
Insulation resistance	1000 MOhm at 500 V DC
Mounting position	Any position
Drop-out voltage threshold	>= 0.1 U <sub>c</sub> DC
Electrical insulation class	Class F
Operating time	20 ms
Reset time	20 ms
[U <sub>c</sub> ] control circuit voltage	48 V DC
Safety reliability data	B10d = 100000
Colour of cover	Standard
Control type	Lockable test button
Local signalling	Flag
Product weight	0.02 kg

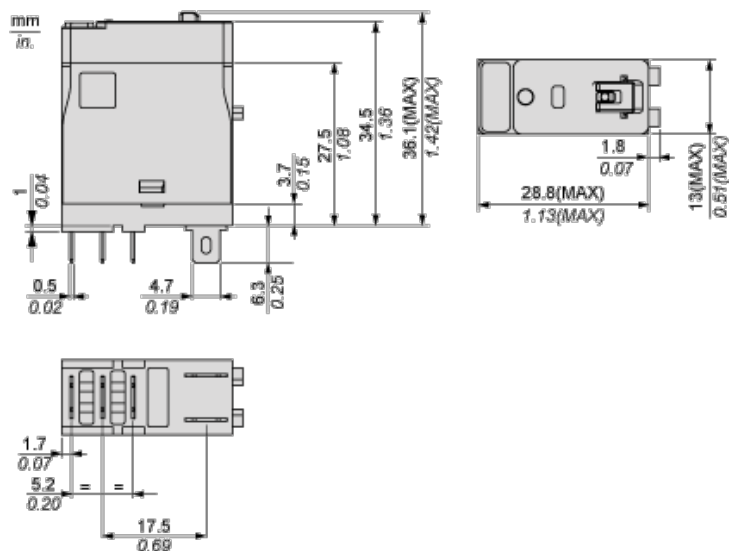
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Device presentation	Complete product
<b>Environment</b>	
vibration resistance	3 gn (f = 10...150 Hz), amplitude +/- 0.75 mm (in operation) 5 gn (f = 10...150 Hz), amplitude +/- 0.75 mm (not in operation)
IP degree of protection	IP40
shock resistance	20 gn in operation 100 gn not in operation
protection category	RT I
standards	UL 508 CSA C22.2 No 14 IEC 61810-1
product certifications	CE CSA RoHS UL REACH EAC China RoHS
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 %
torque value	0.8 N.m

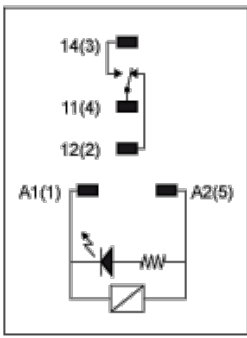
## Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 1426 - Schneider Electric declaration of conformity
REACH	Reference not containing SVHC above the threshold
Product environmental profile	Available
Product end of life instructions	Need no specific recycling operations

## Dimensions

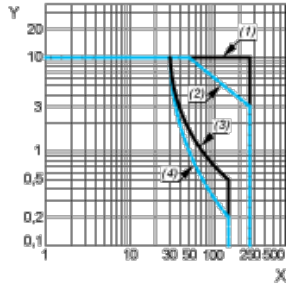


## Wiring Diagram



## Performance Curves

### Maximum Switching Capacity



X : Switching voltage (V)

Y : Switching current (A)

(1) AC Resistive Load

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

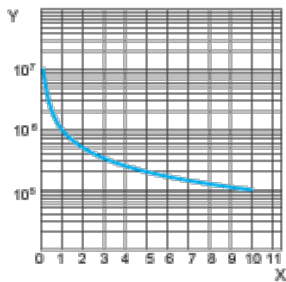
(3) DC Resistive Load

(4) DC Inductive Load  $T0.95=6P$

## Performance Curves

### Life Expectancy

Resistive Load



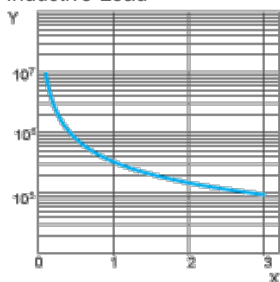
X : Contact Current (A)

Y : Operating Cycle Number

## Performance Curves

### Life Expectancy

Inductive Load



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