

Press Release

RL: THE LITE SLIMLINE SOLID STATE RELAY SERIES FOR RESISTIVE LOADS

Panel space savings and minimized productivity disruptions.

Lainate, October 2022 - Carlo Gavazzi Automation, the international electronics group with activities in the design, manufacture, and marketing of electronic equipment, today presents a new series of solid state relays and solid state contactors – the RL series.

The RL series consists of 1-pole AC switching solid state relays suited for resistive loads. Two versions are available in the series – the RLC and the RLS. The RLC has an integrated heatsink and its product width ranges from 17.8 mm up to 22.5 mm. The RLC output consists of a TRIAC. The RLS has a product width of just 17.8 mm and is intended for chassis mounting or for mounting on an external heatsink. The RLS output also consists of a TRIAC. One variant in the RLS series is available with back to back thyristors (RLS..H).

Solid state solutions are synonymous with millions of trouble-free switching cycles since there are no moving parts. To further enhance reliability and reduce costly machine downtimes, the RL series uses wire bonding technology that reduces stresses from the power chips leading to an even longer lifetime of the solid state switch. In addition, the RL output has integrated overvoltage protection to prevent solid state relay damage from uncontrolled voltage surges and hence ensure productivity disruption is minimized.

“Its slim footprint makes the RL the ideal solution for heater control when multiple solid state relays need to fit in a constrained space.”, Dorianne Grech International Product Manager says. “The RL series is a lite version of the popular RG series and has been designed specifically for resistive loads. This will allow us to offer a more competitive solution for basic applications without compromising the solid state relay performance”.

The RL series is suited for any heating applications that require stable temperatures, where panel space is restricted and where unplanned machine downtime must be avoided. Typical applications are plastic injection machines, coffee machines, electrical cooking appliances and reflow ovens.

Main technical features

- 1-pole, zero cross switching AC solid state relays
- **RLS** (without heatsink) output ratings up to 660 VAC, 25 AAC, 50 AAC
- **RLC** (with integrated heatsink) output ratings up to 530 VAC, 15 AAC, 22 AAC, 30 AAC at $T_{\text{ambient}} 40^{\circ}\text{C}$
- Integrated output overvoltage protection
- DC or AC control voltage
- CE, UKCA, cURus (RLS), cULus listed (RLC)

ABOUT CARLO GAVAZZI AUTOMATION

Carlo Gavazzi Automation is an international electronics group with activities in the design, manufacture and marketing of electronic equipment targeted at the global markets of industrial and building automation.

Carlo Gavazzi Automation provides customers with technologically innovative, high quality and competitive solutions, in compliance with their requirements and expectations through its 22 National Sales Companies in Europe, the Americas and Asia & Pacific, operating with its production sites in Denmark, Italy, Malta, Lithuania and China.

For further information:

Carlo Gavazzi Automation SpA - Via Milano 13 – 20045 Lainate (MI) - Italy
Marketing and Communication - info@gavazziautomation.com - www.gavazziautomation.com