

## Press Release

### **RM1D: THE NEW DC SWITCHING SOLID STATE RELAYS**

Increased ratings up to 100 ADC, high switching frequency and low power dissipation output mosfets.

Lainate, March 2020 - Carlo Gavazzi Automation, the international electronics group with activities in the design, manufacture and marketing of electronic equipment, today presents the new DC switching solid state relays.

DC output solid state relays are used for switching loads supplied with a DC voltage. Typical loads include heating elements, electric valves, fans and solenoids.

Unlike mechanical relays, solid state relays have a very long life, are silent in operation and can achieve very fast switching response times. In addition, they are more immune to vibration and shocks since they are fully solid state and there is no arcing or bouncing of contacts that is typical with mechanical relays. These characteristics make DC solid state relays the preferred and ideal choice for switching of DC loads.

Apart from higher current ratings that now extend the range to 100 ADC, new features include higher switching frequency, lower switching losses with faster response times to switch ON and OFF, improved thermal performance with low power dissipation mosfets, LED indication for control voltage presence and the removal of the potting compound to remove mechanical stress on internal components.

"Performance, reliability and lifetime expectations have made DC solid state relays the preferred switching component for DC loads. Nowadays, battery operated applications such as automotive and renewable energy systems, are driving a higher demand for DC switching solutions," Dorianne Grech, International Product Manager, says. "With this extension of DC switching solid state relays to Carlo Gavazzi's portfolio we can better meet our customer needs and strengthen our position in the SSR market."

Developed by our Competence Centre in Malta, the RM1D relay is specifically designed to provide the ideal switching solution in off-grid equipment and other DC loads typically found in the Packaging, Transportation, Materials handling and Medical equipment.

#### **Main technical features**

- Output voltage rating: 1 – 60 VDC
- Current ratings: 10, 20, 50 and 100 ADC
- Control input voltage range: 4-32 VDC
- Switching frequency up to 1000 Hz
- Very fast response time to switch ON and OFF
- Integrated overvoltage protection on output
- LED indication for control voltage presence
- Isolation Input / Output / Backplate: 3750 Vrms

#### **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:**

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