

## **RG..M: Solid state relays with integrated monitoring**

# **Switches**

# RG..M series

## Solid state relays with integrated monitoring

Fault handling is a recurring headache for machine builders due to the time consumed to identify the fault and the negative effect it leaves on productivity. Having machine components that are able to indicate where the fault is happening and distinguish between certain failures means less maintenance costs and minimised machine downtime.

With the **RG..M** series, Carlo Gavazzi has enhanced the versatility of its successful RG range of solid state relays to include monitoring functions on top of the switching capabilities in a slim 17.8mm footprint. Detection of system faults (mains loss, load loss, SSR open and short circuit), SSR internal error and supply out of range are visualised on the front façade of the SSR via LEDs and can also be monitored remotely via a transistor output integrated in the SSR.



## Timely failure detection in plug and play solutions

### Main features

- Monitoring for system fault (mains loss, load loss, SSR open and short circuit), SSR internal error and supply out of range
- 1-phase zero cross AC switching
- Ratings for RGC..M: up to 660 VAC, 65 AAC
- Ratings for RGS..M: up to 660 VAC, 90 AAC
- 17.8 mm platform, up to 70 mm for RGC > 30 AAC
- DC control voltage range: 4 - 32 VDC
- 24 VDC supply voltage
- Up to 18000 A<sup>2</sup>s for Type B Miniature Circuit Breaker protection
- 100 kArms short circuit current rating acc. to UL508

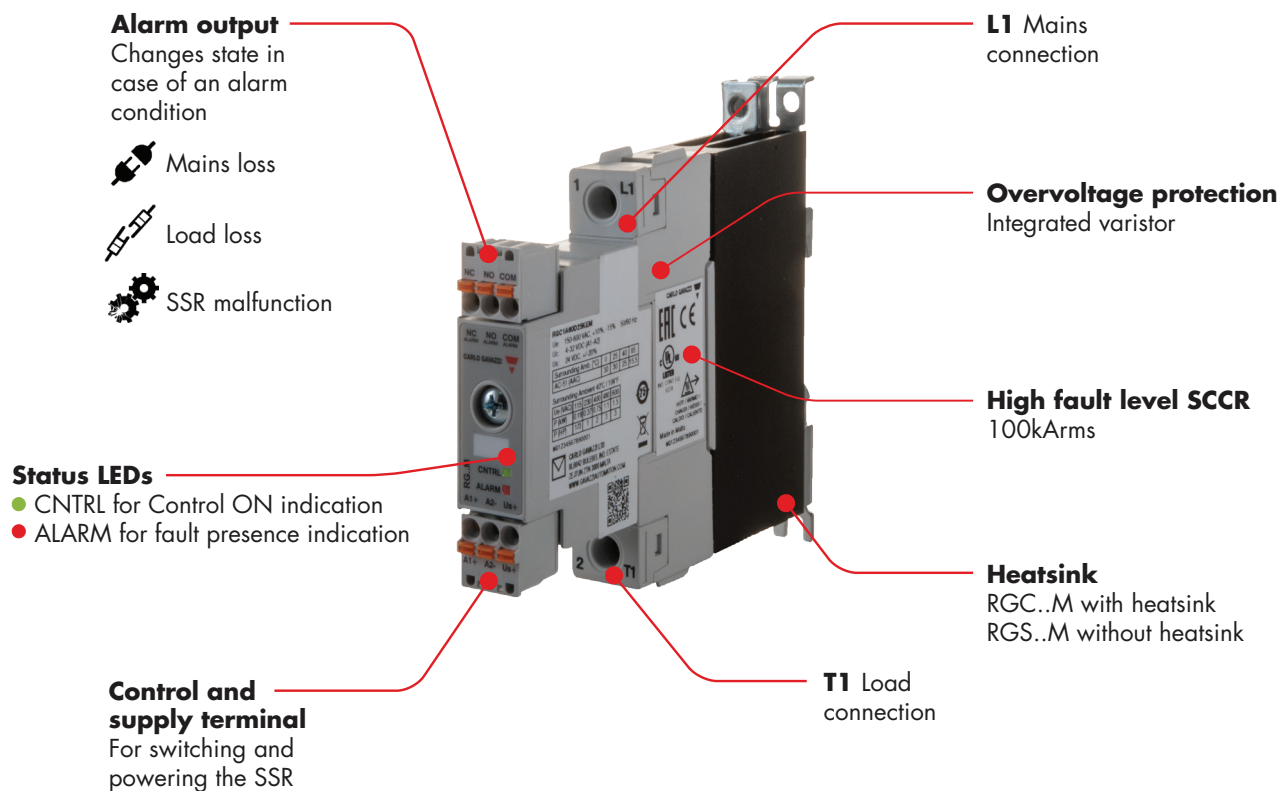
### Benefits



Cost savings with timely failure detection:

- **Increased production throughput**  
Fast reaction to failures
- **Machine uptime**  
Reliability through integrated over voltage protection
- **Fast installation**  
Spring plugs for auxiliary terminals
- **Easy troubleshooting**  
Various faults distinguished via a flashing LED
- **Panel space savings**  
Switching and monitoring in a 17.8mm platform

## Main features



UR, CSA only for RGS..M (version without integrated heatsink)

## Selection guide

### RGC..M (with integrated heatsink)

Rated voltage	20 AAC (525 A <sup>2</sup> s) 17.8 mm	25 AAC (1800 A <sup>2</sup> s) 17.8 mm	30 AAC (1800 A <sup>2</sup> s) 22.5 mm	30 AAC (6600 A <sup>2</sup> s) 17.8 mm	43 AAC (18000 A <sup>2</sup> s) 35 mm	65 AAC (18000 A <sup>2</sup> s) 70 mm
230 VAC	RGC1A23D15KEM	-	-	RGC1A23D31KEM	-	-
600 VAC	RGC1A60D15KEM	RGC1A60D25KEM	RGC1A60D30KEM	RGC1A60D31KEM	-	-
	-	-	-	-	RGC1A60D42GEM	RGC1A60D62GEM

### RGS..M (without heatsink)

Rated voltage	25 AAC (525 A <sup>2</sup> s) 17.8 mm	50 AAC (1800 A <sup>2</sup> s) 17.8 mm	90 AAC (18000 A <sup>2</sup> s) 17.8 mm	-	-	-
230 VAC	RGS1A23D25KEM	-	-	-	-	-
600 VAC	RGS1A60D25KEM	RGS1A60D50KEM	RGS1A60D92KEM RGS1A60D92GEM	-	-	-

KEM = screws for power terminals | GEM = box clamps for power terminals  
Further details are available on online datasheets at [www.gavazziautomation.com](http://www.gavazziautomation.com)

## OUR SALES NETWORK IN EUROPE

### AUSTRIA

Carlo Gavazzi GmbH  
Ketzergrasse 374,  
A-1230 Wien  
Tel: +43 1 888 4112  
Fax: +43 1 889 10 53  
office@carlogavazzi.at

### BELGIUM

Carlo Gavazzi NV/SA  
Mechelsesteenweg 311,  
B-1800 Vilvoorde  
Tel: +32 2 257 4120  
Fax: +32 2 257 41 25  
sales@carlogavazzi.be

### DENMARK

Carlo Gavazzi Handel A/S  
Over Hadstenvej 40,  
DK-8370 Hadsten  
Tel: +45 89 60 6100  
Fax: +45 86 98 15 30  
handel@gavazzi.dk

### FINLAND

Carlo Gavazzi OY AB  
Ahventie, 4 B  
FI-02170 Espoo  
Tel: +358 9 756 2000  
myynti@gavazzi.fi

### FRANCE

Carlo Gavazzi Sarl  
Zac de Paris Nord II, 69, rue de la Belle Etoile,  
F-95956 Roissy CDG Cedex  
Tel: +33 1 49 38 98 60  
Fax: +33 1 48 63 27 43  
french.team@carlogavazzi.fr

### GERMANY

Carlo Gavazzi GmbH  
Pfnorstr. 10-14  
D-64293 Darmstadt  
Tel: +49 6151 81000  
Fax: +49 6151 81 00 40  
info@gavazzi.de

### GREAT BRITAIN

Carlo Gavazzi UK Ltd  
4.4 Frimley Business Park,  
Frimley, Camberley, Surrey GU16 7SG  
Tel: +44 1 276 854 110  
Fax: +44 1 276 682 140  
sales@carlogavazzi.co.uk

### ITALY

Carlo Gavazzi SpA  
Via Milano 13,  
I-20020 Lainate  
Tel: +39 02 931 761  
Fax: +39 02 931 763 01  
info@gavazziacbu.it

### NETHERLANDS

Carlo Gavazzi BV  
Wijkermeerweg 23,  
NL-1948 NT Beverwijk  
Tel: +31 251 22 9345  
Fax: +31 251 22 60 55  
info@carlogavazzi.nl

### NORWAY

Carlo Gavazzi AS  
Melkeveien 13,  
N-3919 Porsgrunn  
Tel: +47 35 93 0800  
Fax: +47 35 93 08 01  
post@gavazzi.no

### PORTUGAL

Carlo Gavazzi Lda  
Rua dos Jerónimos 38-B,  
P-1400-212 Lisboa  
Tel: +351 21 361 7060  
Fax: +351 21 362 13 73  
carlogavazzi@carlogavazzi.pt

### SPAIN

Carlo Gavazzi SA  
Avda. Iparraguirre, 80-82,  
E-48940 Leioa (Bizkaia)  
Tel: +34 94 480 4037  
Fax: +34 94 431 6081  
gavazzi@gavazzi.es

### SWEDEN

Carlo Gavazzi AB  
V:a Kyrkogatan 1,  
S-652 24 Karlstad  
Tel: +46 54 85 1125  
Fax: +46 54 85 11 77  
info@carlogavazzi.se

### SWITZERLAND

Carlo Gavazzi AG  
Verkauf Schweiz/Vente Suisse  
Sumpfstrasse 3,  
CH-6312 Steinhausen  
Tel: +41 41 747 4535  
Fax: +41 41 740 45 40  
info@carlogavazzi.ch

## OUR SALES NETWORK IN THE AMERICAS

### USA

Carlo Gavazzi Inc.  
750 Hastings Lane,  
Buffalo Grove, IL 60089, USA  
Tel: +1 847 465 6100  
Fax: +1 847 465 7373  
sales@carlogavazzi.com

### CANADA

Carlo Gavazzi Inc.  
2660 Meadowvale Boulevard,  
Mississauga, ON L5N 6M6, Canada  
Tel: +1 905 542 0979  
Fax: +1 905 542 22 48  
gavazzi@carlogavazzi.com

### MEXICO

Carlo Gavazzi Mexico S.A. de C.V.  
Circuito Puericultores 22, Ciudad Satelite  
Naucalpan de Juarez, Edo Mex. CP 53100  
Mexico  
Tel: +52 55 5373 7042  
Fax: +52 55 5373 7042  
mexicosales@carlogavazzi.com

### BRAZIL

Carlo Gavazzi Automação Ltda.  
Av. Francisco Matarazzo, 1752  
Conj 2108 - Barra Funda - São Paulo/SP  
Tel: +55 11 3052 0832  
Fax: +55 11 3057 1753  
info@carlogavazzi.com.br

## OUR SALES NETWORK IN ASIA AND PACIFIC

### SINGAPORE

Carlo Gavazzi Automation Singapore Pte. Ltd.  
61 Tai Seng Avenue #05-06  
Print Media Hub @ Paya Lebar iPark  
Singapore 534167  
Tel: +65 67 466 990  
Fax: +65 67 461 980  
info@carlogavazzi.com.sg

### MALAYSIA

Carlo Gavazzi Automation (M) SDN. BHD.  
D12-06-G, Block D12,  
Pusat Perdagangan Dana 1,  
Jalan PJU 1A/46, 47301 Petaling Jaya,  
Selangor, Malaysia.  
Tel: +60 3 7842 7299  
Fax: +60 3 7842 7399  
sales@gavazzi-asia.com

### CHINA

Carlo Gavazzi Automation  
(China) Co. Ltd.  
Unit 2308, 23/F.,  
News Building, Block 1,1002  
Middle Shennan Zhong Road,  
Shenzhen, China  
Tel: +86 755 83699500  
Fax: +86 755 83699300  
sales@carlogavazzi.cn

### HONG KONG

Carlo Gavazzi Automation  
Hong Kong Ltd.  
Unit 3 12/F Crown Industrial Bldg.,  
106 How Ming St., Kwun Tong,  
Kowloon, Hong Kong  
Tel: +852 23041228  
Fax: +852 23443689

## OUR COMPETENCE CENTRES AND PRODUCTION SITES

### DENMARK

Carlo Gavazzi Industri A/S  
Hadsten

### MALTA

Carlo Gavazzi Ltd  
Zejtun

### ITALY

Carlo Gavazzi Controls SpA  
Belluno

### LITHUANIA

Uab Carlo Gavazzi Industri Kaunas  
Kaunas

### CHINA

Carlo Gavazzi Automation (Kunshan) Co., Ltd.  
Kunshan

## HEADQUARTERS

Carlo Gavazzi Automation SpA  
Via Milano, 13  
I-20020 - Lainate (MI) - ITALY  
Tel: +39 02 931 761  
info@gavazziautomation.com



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