



RM1D: DC solid state relays

Switches

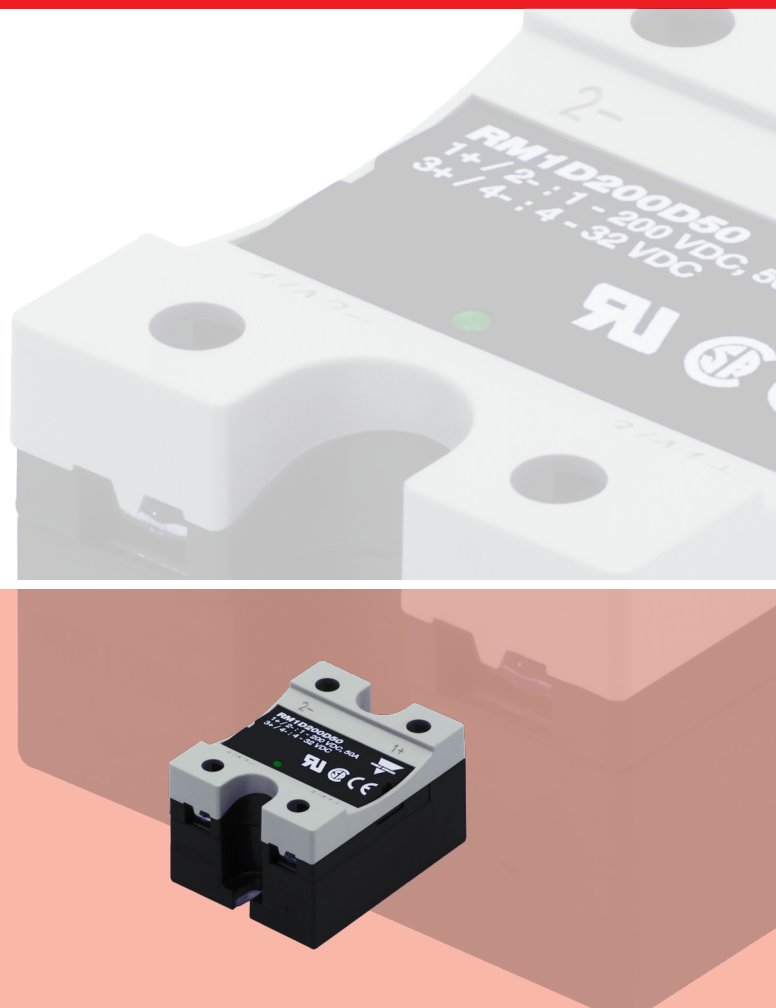
RM1D series

DC switching solid state relays

DC solid state relays (SSRs) are used for switching loads supplied with a DC voltage. Unlike mechanical relays, SSRs have a very long life, are silent in operation, can achieve very fast switching response times and are less immune to vibration and shocks. These characteristics make DC SSRs the preferred and ideal choice for switching of DC loads.

Typical loads include heating elements, electric valves, fans and solenoids. Nowadays, battery operated applications are driving a higher demand for DC switching solutions.

With the RM1D series, Carlo Gavazzi's range of hockey puck DC SSRs now extends up to 100 ADC at 60 V, up to 50 ADC at 200 V and up to 10 ADC at 500 V.



DC panel mount solid state relays

Main Features

- Output ratings up to 60 VDC, 100 ADC
- Output ratings up to 200 VDC, 50 ADC
- Output ratings up to 500 VDC, 10 ADC
- Control voltage range: 4-32 VDC
- Low power dissipation output Mosfet
- High PWM switching frequency, up to 1000 Hz
- Fast response times, typically 100 μ s
- 3750 V isolation Input vs. Output vs. Backplate
- Operating temperature up to +80°C (+176°F)

Benefits

Millions of switching cycles without breakdown

- A fully solid state solution; the lifetime is not limited by mechanical moving parts
- Elimination of potting compound removes mechanical stress and elongates the lifetime of the SSR

Fast reaction

- Response time to switch ON and OFF is very fast
- Switching losses are reduced

Immune to harsh environments

- Resistant to vibration and shocks
- No arcing since there are no mechanical contacts

Silent in operation

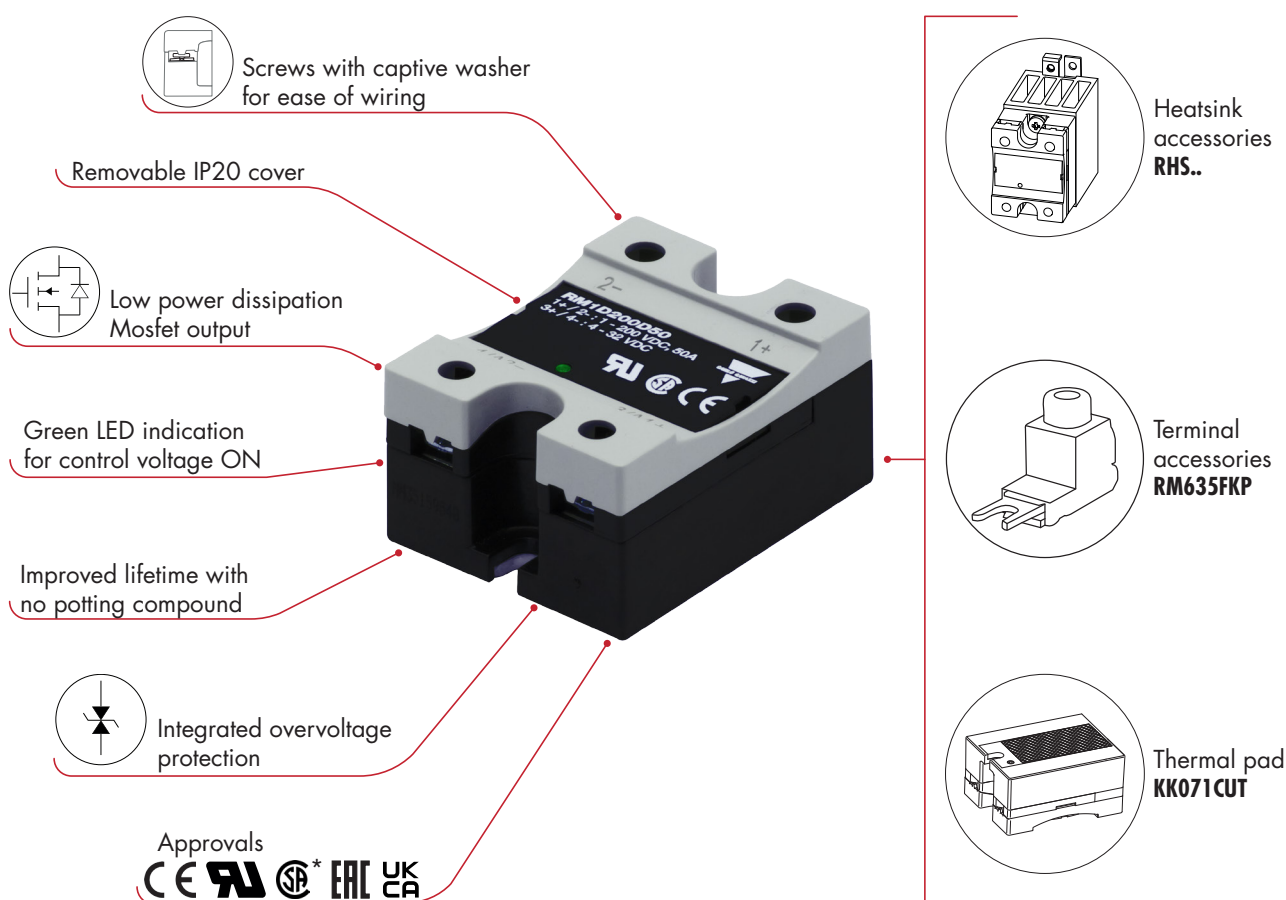
- Ideal for applications where switching needs to be done in a quiet environment

Applications

- Packaging machinery
- Transportation
- Medical equipment



Reliable performance and long life with solid state switching



* not applicable to RM1D060D3, cUR applies instead

Selection guide

Output voltage range	Control voltage range	Max. current rating				
		3 ADC	10 ADC	20 ADC	50 ADC	100 ADC
1 - 60 VDC	4 - 32 VDC	RM1D060D3	RM1D060D10	RM1D060D20	RM1D060D50	RM1D060D100
1 - 200 VDC	4.5 - 32 VDC	-	-	RM1D200D20	RM1D200D50	-
1 - 500 VDC	4.5 - 32 VDC	-	RM1D500D10	-	-	-

Further details are available on online datasheets at www.gavazziautomation.com

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OUR SALES NETWORK IN EUROPE

AUSTRIA

Carlo Gavazzi GmbH
Ketzergerasse 374,
A-1230 Wien
Tel: +43 1 888 4112
Fax: +43 1 889 1053
office@carlogavazzi.at

BELGIUM

Carlo Gavazzi NV/SA
Mechelsesteenweg 311,
B-1800 Vilvoorde
Tel: +32 2 257 41 20
sales@carlogavazzi.be

DENMARK

Carlo Gavazzi Handel A/S
Over Hadstenvej 40,
DK-8370 Hadsten
Tel: +45 89 60 61 00
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 81 00 0
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 854110
Fax: +44 1 276 682140
sales@carlogavazzi.co.uk

ITALY

Carlo Gavazzi SpA
Via Milano, 13,
I-20045 Lainate
Tel: +39 02 931 76 1
info@gavazziacbu.it

NETHERLANDS

Carlo Gavazzi BV
Wijkermeerweg 23,
NL-1948 NT Beverwijk
Tel: +31 251 22 93 45
info@carlogavazzi.nl

NORWAY

Carlo Gavazzi AS
Melkeveien 13,
N-3919 Porsgrunn
Tel: +47 35 93 08 00
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 70 60
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 40 37
Fax: +34 94 431 60 81
gavazzi@gavazzi.es

SWEDEN

Carlo Gavazzi AB
V:a Kyrkogatan 1,
S-652 24 Karlstad
Tel: +46 54 85 11 25
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 45 35
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 60089-6904, USA
Tel: +1 847 465 61 00
sales@carlogavazzi.com

CANADA

Carlo Gavazzi Canada Inc.
2430 Meadowpine Boulevard Unit:104
Mississauga, ON L5N 6S2, Canada
Tel: +1 905 542 0979
Toll Free: 1-888-575-2275
gavazzi@carlogavazzi.com

MEXICO

Carlo Gavazzi Mexico S.A. de C.V.
Circuito Puericultores 22, Ciudad Satelite
Naucalpan de Juárez, 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 05001-200 - 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
info@gavazzi-asia.com

CHINA

Carlo Gavazzi Automation
(China) Co. Ltd.
Unit 2308, 23/F.,
News Building, Block 1, 1002
Middle Shennan Zhong Road, Futian District,
Shenzhen, China
Tel: +86 755 8369 9500
Fax: +86 755 8369 9300
sales@carlogavazzi.cn

HONG KONG

Carlo Gavazzi Automation
Hong Kong Ltd.
Unit No. 16 on 25th Floor, One Midtown,
No. 11 Hoi Shing Road, Tsuen Wan,
New Territories, Hong Kong
Tel: +852 26261332 / 26261333
Fax: +852 26261316

TAIWAN

Carlo Gavazzi Automation Singapore
Pte. Ltd. (Taiwan Branch)
12F-3, No. 530, Yingcai Rd.,
West Dist., Taichung City 403518,
Taiwan, China
Tel: +886 4 2258 4001
Fax: +886 4 2258 4002

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-20045 - Lainate (MI) - ITALY
Tel: +39 02 931 76 1
info@gavazziautomation.com

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www.gavazziautomation.com