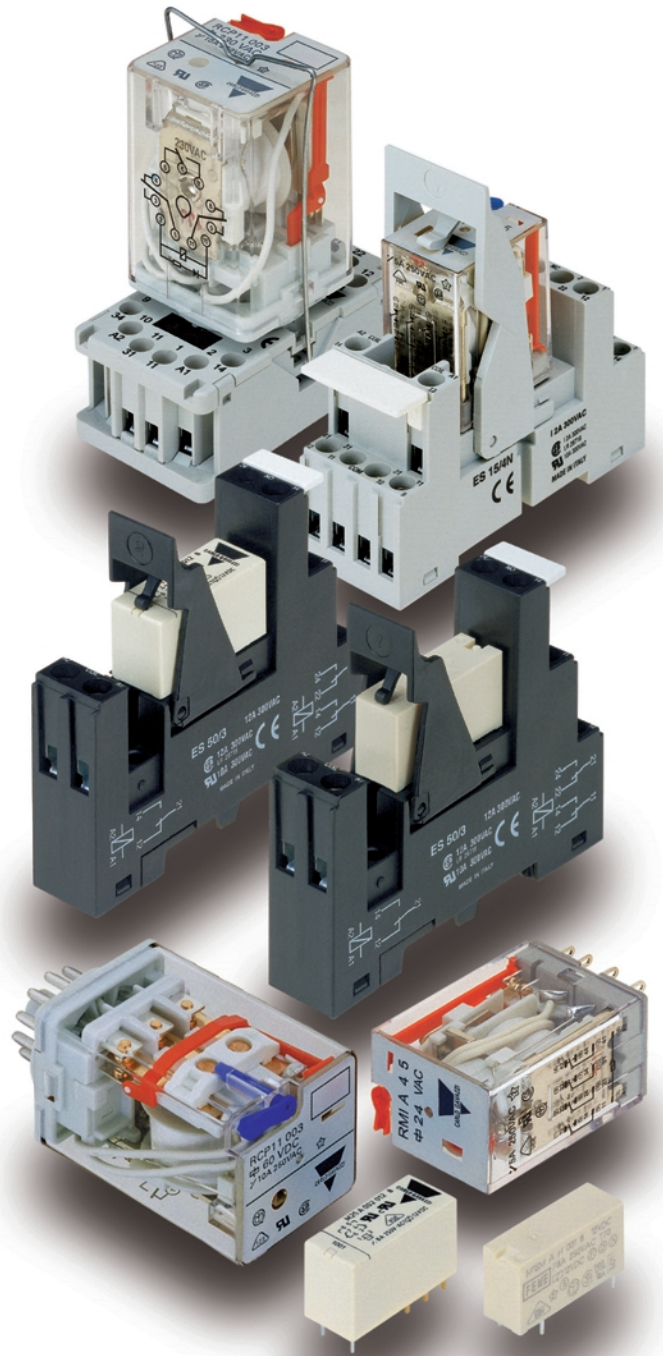


Relays



Switch

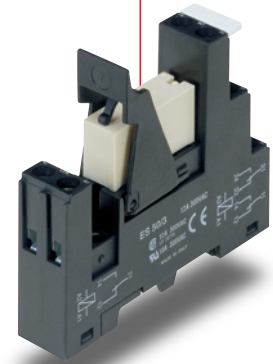
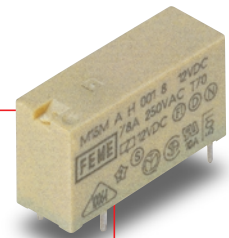


Monostable or Bistable Miniature Power Relays



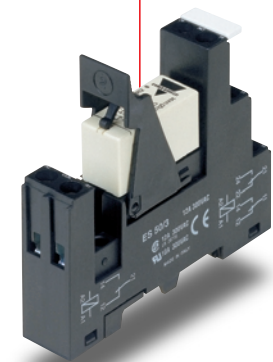
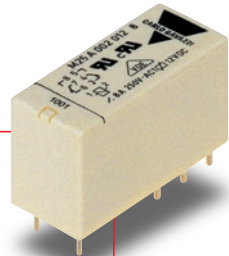
- Miniature size 15 mm high
- PCB mounting
- Monostable or bistable versions
- 4 kV / 8 mm insulation
- Switching capacity 8 A / 250 VAC
- DC coils:
 - 2 to 147 VDC monostable version
 - 2.4 to 84.7 VDC bistable version
- 1 normally open contact or
1 change over contact
- General purpose, industrial electronics
- Sealed according to IP 67 standard
- 4 different pin layout configuration
- Low coil power consumption

Type **M15**

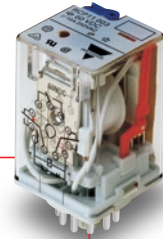


- Miniature size 15.7 mm high
- PCB mounting
- Monostable version
- 5 kV / 10 mm insulation
- Switching capacity:
 - 12 or 16 A / 250 VAC 1 pole version
 - 8 A / 250 VAC 2 pole version
- DC coils 5 to 110 VDC
- 1 or 2 change over contacts
- General purpose, industrial electronics
- Sealed according to IP 67 standard
- Low coil power consumption

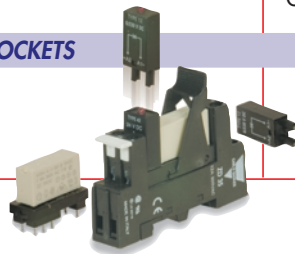
Type **M25**



Relay



TYPE	M15 - M15 R1/R2	M25	RMI 2-10 /RMI 4-5	RCP
DIMENSIONS				
Height - Length - Width	15 x 29 x 10	15.7 x 29 x 12.7	36 x 28 x 21.5	56 x 35.5 x 35.5
CONTACTS				
Configuration	1 CO, 1 NA	1 CO, 2 CO	2 CO, 4 CO	2 CO, 3 CO
Material	AgCdO	AgCdO	Silver alloy	Silver alloy
Rated current	8 A	8 A, 12 A, 16 A	5 A, 10 A	10 A
Max. switching power	2000 VA	2000VA-3000VA-4000VA	300 W-2500 VA (2 poles) 150 W-1250 VA (4 poles)	300 W- 2500 VA
Max. contact voltage	380 VAC	440 VAC	250 VAC / 30 VDC	380 VAC
Minimum permissible load (Typical value)	100 mA at 24 VDC 10 mA at 10 mVDC (Au)	100 mA at 24 VDC	-	100 mA at 24 VDC
COIL				
Rated voltage	DC 3 to 110 VDC 3 to 48 VDC (M15 R1) 3 to 24 VDC (M15 R2)	5 to 110 VDC	5 to 110 VDC	6 to 110 VDC
	AC -	-	6 to 230 VAC	6 to 230 VDC
Consumption	DC 100 mW V_{min}	0.4 W	0.9 W	1.3 W
	AC -	-	1.9 VA	2.1 VA
Operating range	0.7 to 1.7 Vn	See data sheet	0.7 to 1.7 Vn	-
GENERAL DATA				
Electrical life (at max. switching power)	1 x 10 ⁵ cycles	1 x 10 ⁵ cycles	1 x 10 ⁵ ops (1800 ops/h)	1 x 10 ⁵
Mechanical life	30 x 10 ⁶ cycles	1 x 10 ⁷ cycles	1 x 10 ⁷ ops (18000 ops/h)	1 x 10 ⁷
Insulation test VAC (1min)				
- Contact/coil	4000 VAC	5000 VAC	3750 VAC Vrms	3750 VAC Vrms
- Open contacts	1000 VAC	1000 VAC	750 VAC Vrms	750 VAC Vrms
- Contact different polarity	-	2500 VAC (1 pole)	1250 VAC Vrms	1250 VAC Vrms
Protection category		IP 67	IP 67	IP 40 IP 40
Operating temperature	-40°C to +70°C	-40°C to +85°C	-55°C to +70°C	-40°C to +55°C
Terminal shape	PCB	PCB	Plug-in and PCB	Plug-in
Approvals	UL, CSA, VDE, IMQ S, N, D, F	VDE	UL, CSA, VDE, IMQ	UL, CSA, VDE, IMQ
OPTIONS				
	AgNi, AgSnO ₂ Gold plated contacts	AgNi, AgSnO ₂ Gold plated contacts	-	-
SOCKETS				



CARLO GAVAZZI offers a wide range of **printed circuit board and modular DIN rail mount sockets** for our various electromechanical relays. The following optional plug-in blocks are also offered for the DIN rail mount sockets:

LED Indication

Diode Protection

RC Network Protection

MOV Protection

Ordering Key	Pin Layout Configuration	Contact Material	Version	Contact Code	Contact Rated Current	Coil Rated Voltage
M 15	M	A	H	001	8	12VDC

M = 3.5 mm
E = 3.2 mm
B = 5 mm
F = 2.5 mm

A = AgCdO
B = AgNi
C = AgCdO, Au plated > 3.5 micron
D = AgCdO, Au gilded > 0.5 micron
E = AgNi, Au plated > 3.5 micron
F = AgNi, Au gilded > 0.5 micron
S = AgSnO₂

H = Sealed

001 = 1 Change-over
100 = 1 Make contact

8 = 8A

3V - 5V - 6V - 8V - 12V - 24V -
48V - 110V DC

Ordering Key	Contact Material	Rated Coil Voltage	DC/AC	Options
M 25	A	001	024	16

A = AgCdO (Standard)
S = AgSnO₂
C = AgNi10, Au plated > 3.5 micron
G = AgNi10

001 = 1 Change-over contact
100 = 1 Make contact
002 = 2 Change-over contacts
200 = 2 Make contacts

5VDC=005 / 6VDC=006 / 12VDC=012
24VDC=024 / 48VDC=048 / 60VDC=060
110VDC=110

16 = 16A (001 - 100) Pin layout 5 mm
12 = 12A (001 - 100) Pin layout 3.5 mm
8 = 8A (002 - 200) Pin layout 5 mm

Ordering Key	Terminal Version	Contact Code	Rated Coil Voltage	DC/AC
RMI	A	4 5	230	AC

A = Soldering Terminals
B = PCB Terminals

2 10 = 2 Change-Over contacts 10A
4 5 = 4 Change-Over contacts 5A

5V-6V-12V-24V-48V-60V-110V DC
6V-12V-24V-48V-115/120V-230V AC

DC = Direct Current Coils
AC = Alternate Current Coils

Ordering Key	Number of Pins	Contact Code	Rated Coil Voltage	DC/AC
RCP	11	003	230	AC

8 = Eight Pins
11 = Eleven Pins

002 = 2 Change-Over Contacts 10A
003 = 3 Change-Over Contacts 10A

6V-12V-24V-48V-60V-100V-110V DC
6V-12V-24V-48V-115/120V-230V AC

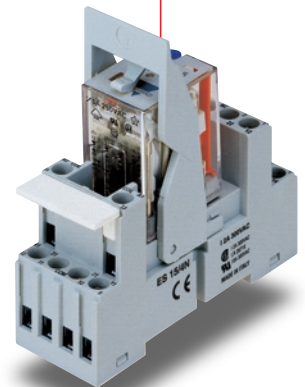
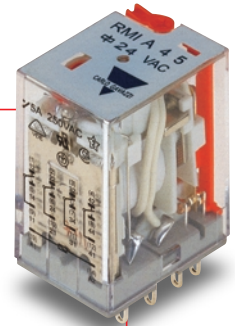
DC = Direct Current Coils
AC = Alternate Current Coils

Monostable Midi Industrial and Industrial Relays

CARLO GAVAZZI

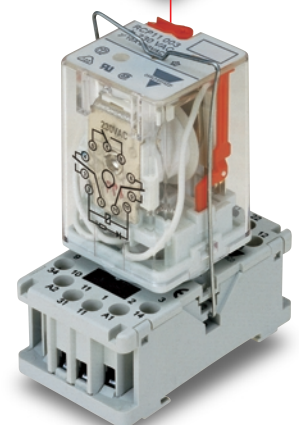
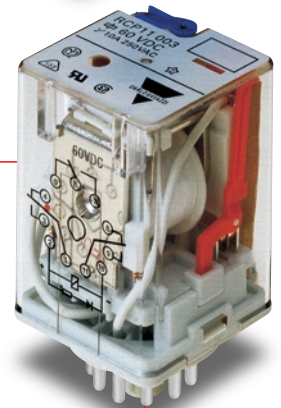
- High switching power
- Small size
- Monostable version
- Switching capacity 2 poles version
10 A / 250 VAC - 12 A (5×10^4 cycles)
- Switching capacity 4 poles version
5 A / 250 VAC - 6 A (5×10^4 cycles)
- DC coils 5 to 110 VDC
- AC coils 6 to 230 VAC
- 2 or 4 change over contacts
- Standard with LED, locking push to test button and mechanical flag indicator
- 3,750 VAC dielectric coil to contacts
- Sealed according to IP 40 standard
- Conform to the CE low voltage directive

Type **RMI**



- 8 or 11 pin socket mounting
- Monostable version
- Long life (minimum 100,000 electrical operations at 10 A 250 VAC / 30 VDC)
- Switching capacity:
10 A / 250 VAC - 12 A (5×10^4 cycles)
- DC coils 6 to 110 VDC
- AC coils 6 to 230 VAC
- 2 or 3 change over contacts
- Matched sockets available
- Standard with LED, locking push to test button and mechanical flag indicator
- 3,750 VAC dielectric coil to contacts
- Sealed according to IP 40 standard
- Conform to the CE low voltage directive

Type **RCP**



The Complete Product Package

CARLO GAVAZZI

Sense

Inductive Proximity • Capacitive Proximity
Photoelectric • Ultrasonic • Level Controls
Limit Switches • Magnetic Switches



Control

Timers • Counters • PLCs • Panel Meters
HMI • PID Controllers • Energy Management
Current & Voltage Monitors • Enclosures and Cabinets



Solid State Relays • Electromechanical Relays
Motor Controllers • Pushbuttons • Switches
Pilot Devices • Cam Switches • Rotary Disconnects



Cable Pull Switches • Interlock Switches • Hinge Switches
And Coming Soon: Electrical Transient Protection
Safety Modules • Mat Systems • Light Curtains

Switch

Safety

A Global Force in Industrial Automation

CARLO GAVAZZI has a multitude of sales offices spanning North America (not to mention our hundreds of distributors). Therefore, we can be viewed as "your local automation resource" - assisting you every step of the way in finding the proper solution for your various application requirements. Naturally, our job is greatly simplified as we have such a vast range of solutions to offer you via our comprehensive product package.

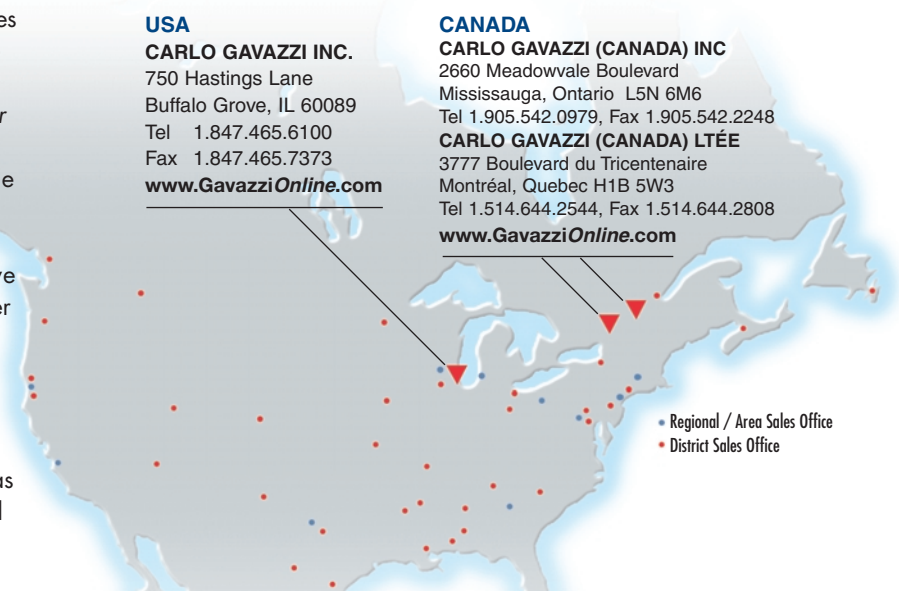
Our worldwide sales offices make us an ideal business partner, especially for manufacturers of exported machinery, as our products are available locally and they are CE marked.

USA

CARLO GAVAZZI INC.
750 Hastings Lane
Buffalo Grove, IL 60089
Tel 1.847.465.6100
Fax 1.847.465.7373
www.GavazziOnline.com

CANADA

CARLO GAVAZZI (CANADA) INC
2660 Meadowvale Boulevard
Mississauga, Ontario L5N 6M6
Tel 1.905.542.0979, Fax 1.905.542.2248
CARLO GAVAZZI (CANADA) LTÉE
3777 Boulevard du Tricentenaire
Montréal, Quebec H1B 5W3
Tel 1.514.644.2544, Fax 1.514.644.2808
www.GavazziOnline.com



• Regional / Area Sales Office
• District Sales Office

Argentina • Australia • Austria • Bahrain • Belgium • Bolivia • Bosnia • Brazil • Brunei • Bulgaria • Canada
Chile • China • Columbia • Croatia • Cyprus • Czech • Denmark • Dominican Republic • Egypt • Estonia
Finland • France • Germany • Greece • Hungary • Iceland • India • Indonesia • Iran • Ireland • Italy • Japan
Jordan • Kenya • Korea • Kuwait • Lebanon • Malaysia • Malta • Maroc • Mauritius • Mexico • Netherlands
New Zealand • Norway • Pakistan • Papua New Guinea • Paraguay • Peru • Philippines • Poland
Portugal • Qatar • Romania • Russia • Saudi Arabia • Serbia • Singapore • Slovakia • Slovenia • South Africa
Spain • Sultanate of Oman • Sweden • Switzerland • Syria • Taiwan • Thailand • Tunisia • Turkey
Ukraine • United Arab Emirates • United Kingdom • Uruguay • United States of America • Venezuela • Vietnam