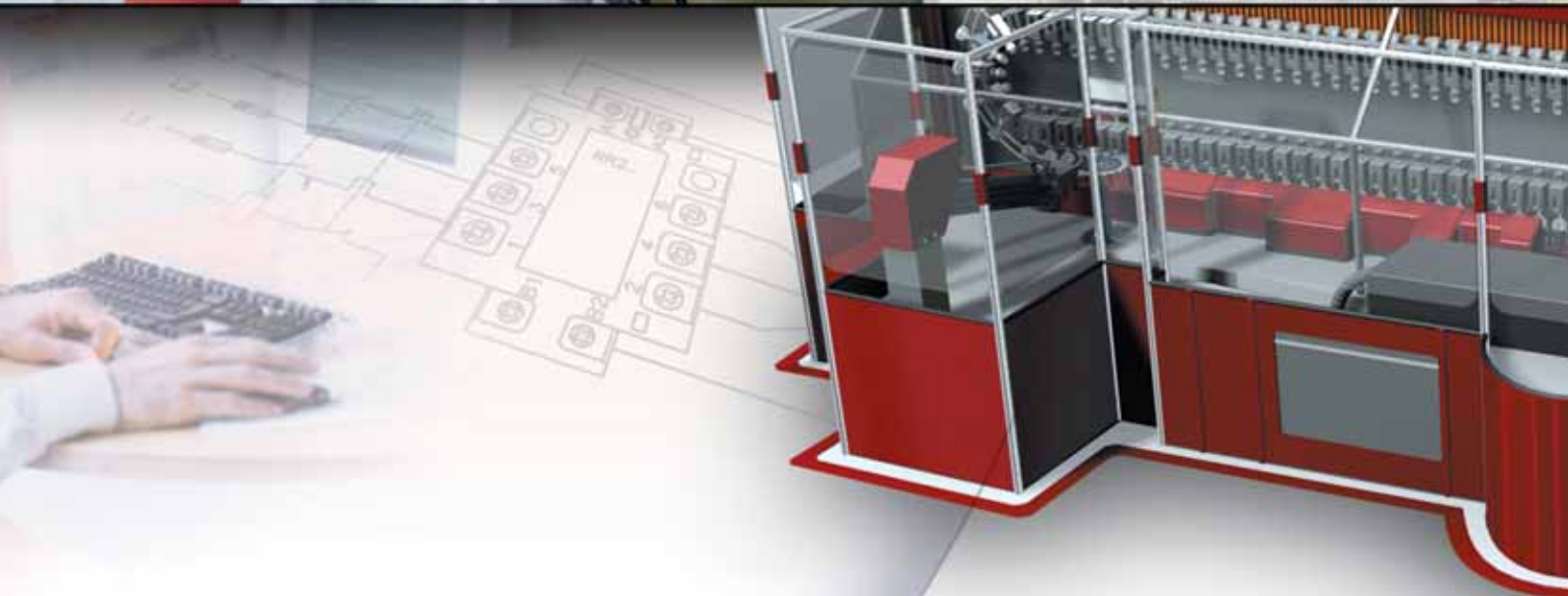


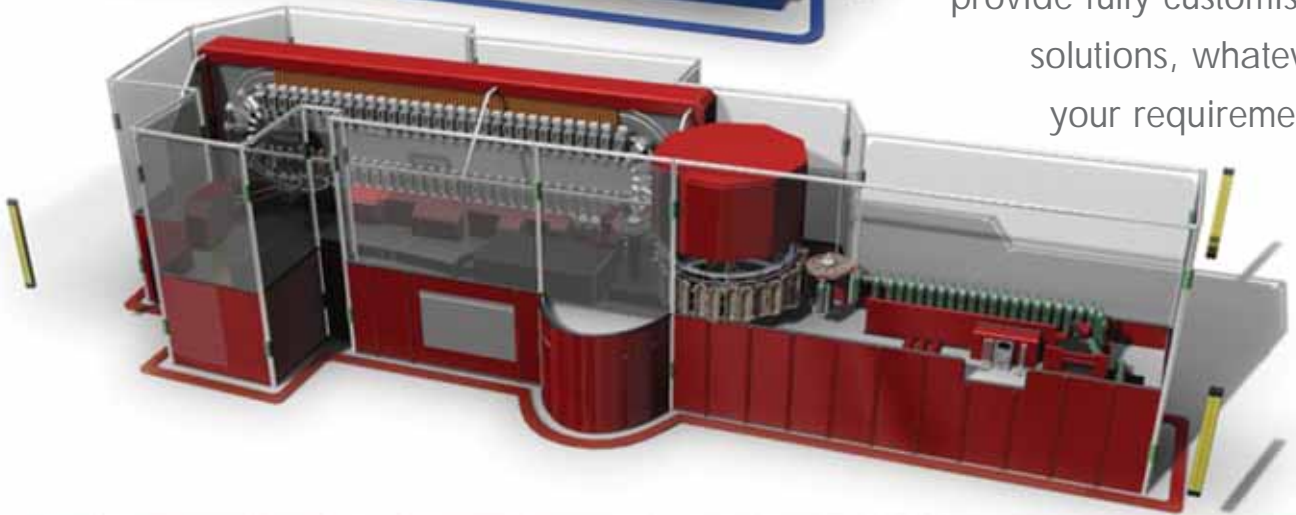
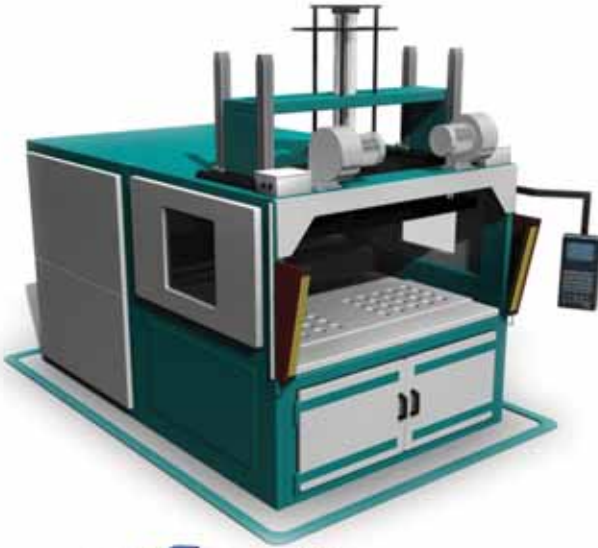
CARLO GAVAZZI
Automation Components

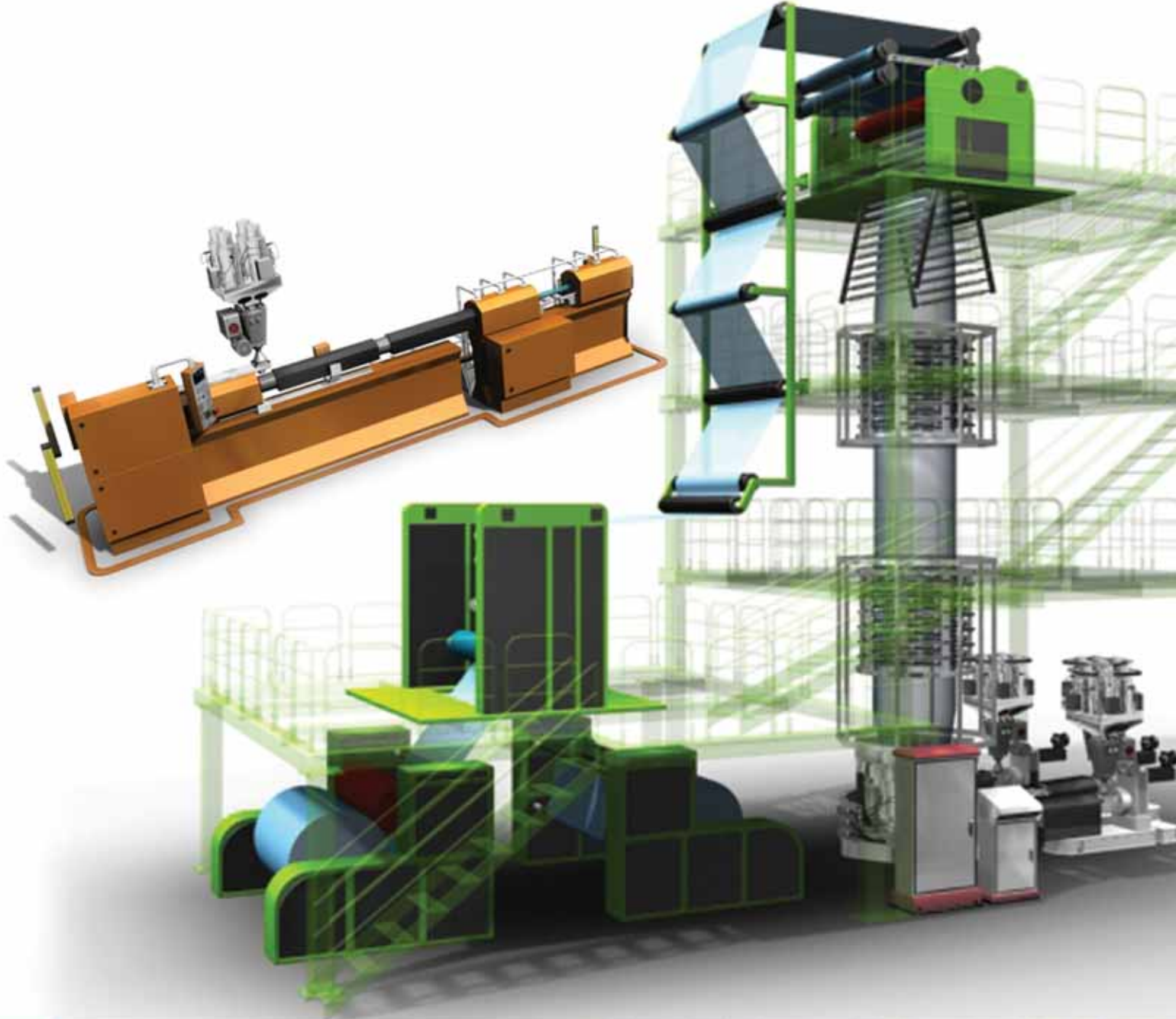


Solutions for Plastic Machinery

Components for Plastic Machinery Solutions

With more than 40 years' expertise in designing and building components for plastic machinery, **Carlo Gavazzi** can provide fully customised solutions, whatever your requirements





Our product range



PQT90

MAIN FEATURES

- Dimensions: 90x90x138
- Power quality transducer. 32 bit μ P based. Alarm outputs. SMS messages. Measurement of all instantaneous variables. Energy, water and gas meter. 2MB Memory+ Real time clock.
- Instant variables: N.A.
- Energy variables: N.A.
- Accuracy: class 0.5 (A, V)
- Degree of protection: IP20
- Approvals/Marks: CE-UL-CSA

Power Quality Transducer



CPT DIN...

MAIN FEATURES

- Dimensions: 45x83.5x98.5
- Power analyzer and energy meter. 2 alarm, or pulse or -1-2 analogue outputs. Dupline bus. RS 232 485/422 (Modbus). Measurement of all instantaneous variables.
- Instant variables: N.A.
- Energy variables: N.A.
- Accuracy: class 0.5 (A, V)
- Degree of protection: IP20
- Approvals/Marks: CE

Compact Power Transducer



DIA 53...

MAIN FEATURES

- Dimensions: 81.5x17.5x67
- Over current monitoring relay. 1-phase AC. Set point adjust. 2-wire connection. Own power supply. 12 mm hole for insulated current carrying wire.
- DIN RAIL housing
- 1 x SPDT relay
- Electrical life: $>10^5$ oper.
- Power supply: 24 VDC/24 to 240 VAC [M24] 12 to 240 VAC/DC [W24]
- Approvals/Marks: CE-UL-CSA

Monitoring Relay



RJ.../RJCS...

MAIN FEATURES

- RJ Mini... :**
- Dimensions: 80x22,5x103
 - 1-Phase Solid State Relay
 - Zero switch. or instant-on
 - Rated current: 20,30A AC
 - Rated volt.: up to 660 VAC
 - Degree of protect. IP20
 - Appr/Mar.: CE-UL-cUL-CSA
- RJCS... :**
- Dimensions: 8,7x45x103
 - 1-Phase Solid State Relay Integr. under current monit. Local and remote setup
 - Zero switching
 - Rated current: 50A AC
 - Rated volt.: up to 660 VAC
 - Degree of protect. IP20
 - Appr/Mar.: CE-UL-cUL-CSA

S.S.R. Mini & Current Sensing



RX (ThyRex)...

MAIN FEATURES

- Dimensions: 76x22.5x56
- 1-Phase Solid State Relay
- Zero switching or instant-on
- Rated operational current: 25, 32 AC
- Rated operational voltage: up to 550 VAC
- Control input range: 4-32 VDC or 24-275 VAC
- Screw, spring or faston terminal options
- Degree of protect. IP20
- Approvals/Marks: CE-UL-CSA

Pluggable Solid State Relay

Designed to Market Requirements

Dedicated applications engineering teams custom design products and applications to client specification.

Solution to Applications Challenges

Carlo Gavazzi offers a full range of plastics manufacturing products, individually designed and built to the highest standards, while offering the customer all the advantages of a complete system.

Guaranteed reliability

All product ranges are designed and manufactured in a centre of excellence to ensure that each individual product is the best in its field. Carlo Gavazzi products are subject to stringent quality tests to guarantee they meet the performance specifications set.

for Plastic Machinery



IA12.../CA30...

MAIN FEATURES

- IA12... :**
Inductive proximity sensors
- Dimensions: M12x41 (Short-body) M12x61 (Long-body)
 - Housing material: plastic or metallic
 - Degree of protect. IP67
 - Approv/Marks: CE-UL-CSA
- CA30... :**
Capacitive proximity sensors Tripleshield™
- Dimensions: M30x63,6
 - Housing material: plastic or metallic
 - Degree of protection: IP67
 - Approv/Marks: CE-UL-CSA

Inductive and Capacitive Sensors



PA18.../UA30...

MAIN FEATURES

- PA18... :**
Photoelectric sensors
Diffuse reflect.- Retro refl.
Retro reflection polarized
Through-beam
- Dimensions: M18x55
 - Housing material: plastic or metallic
 - Degree of protect. IP67
 - Approv/Marks: CE-UL-CSA
- UA30... :**
Ultrasonic sensors, Basic analogue, Integrated ampl.
Programmable, Teach-in
- Dimensions: M30x125
 - Housing material: plastic
 - Degree of protection: IP67
 - Approv/Marks: CE

Photoelectric and Ultrasonic Sensors



SB4...

MAIN FEATURES

- Dimensions (external): 35x40xh (h= 161 to 1657)
- Power supply: 24VDC \pm 20%
- Output functions: 2PNP
- Output connectors: M12 4-pole connect. for TX M12 8-pole connect. for RX
- Auxiliary functions: Total/partial muting-Override-Auto/manual Reset
- Material: Painted aluminium
- Environment light rejection: IEC-61496-2
- Degree of protection: IP65
- Operating temperature: -10°C to +55°C

Safety Light Curtains



SMS.../CLS...

MAIN FEATURES

- SMS... :**
Safety magnetic sensors
- Dimensions: 88x25x13
 - Output function: NO+NC
 - Max swit. voltage: 10VAC
 - Max swit. current: 0,25A
 - Max swit. power: 5VA
 - Housing material: plastic
 - Degree of protect. IP67
 - Operating temperature: -25°C to +70°C
- CLS... :**
Safety magnetic units
- Dimensions: 88x25x13
 - Housing material: plastic
 - Degree of protection: IP67
 - Operating temperature: -25°C to +70°C

Safety Magnetic Sensors and Units



NA1 3.../NL1 3...

MAIN FEATURES

- Dimens.: 99x22.5x114.5
- Housing: 22.5 for DIN RAIL
- Safety gate & emerg. stop module (NA1 3)
Light curtain module (NL1 3)
- Safety category: 4
- Safety output: 3 NO
- Auxiliary outputs: 1 NC (NL1 3)
- Power supply: 24 VAC/VDC
- Power drain: 100 mA, 2 VA (M22A2/1-A) (NA1 3)
2.5 VA / 2.5 W (NL1 3)
- Response time: \leq 30 ms
- Degree of protection: IP20

Safety Modules

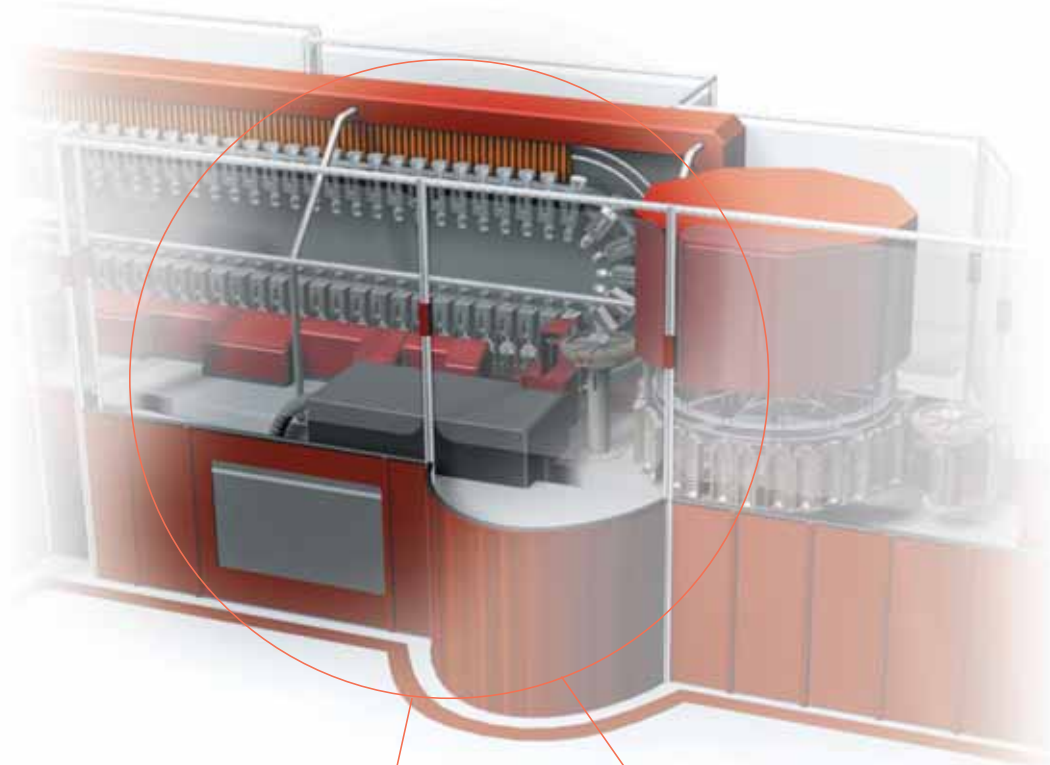
• Panel building can be a time-intensive operation as each SSR needs to be individually mounted and wired. Thyrex is an innovative plug-in SSR from Carlo Gavazzi. Mounting and wiring are done simultaneously, speeding up the assembly process.

• In the blow moulding process, subtle temperature control is key to determining the quality of the final outcome. SSRs offer a greater degree of control over the process than contactors, eliminating moving parts and allowing frequent load switching.

• Integrating thyristors and copper bonded ceramic, Carlo Gavazzi SSRs provide an extremely robust switching solution for blown film extrusion and injection moulding technologies. SSRs can help maximise plant up-time and minimise loss of production.

• By using an ultrasonic sensor to check film loop tension in blown film machinery, Carlo Gavazzi's solutions help prevent film breakages and minimise interruptions to the production cycle.

• Carlo Gavazzi ultrasonic sensors continuously monitor the diameter of the blown film reel. Early warning signals alert technicians when a reel will need replacing, ensuring greater control over the production process.



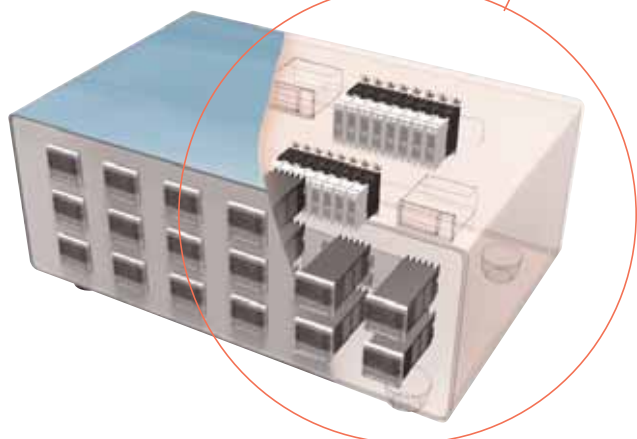
RJCS... 1-Phase solid state relay, integrated under current monitoring.



IA12.../CA30.../PA18.../UA30...
Inductive, capacitive, photoelectric and ultrasonic sensors



RJ Mini... 1-Phase solid state relay.



WM22 DIN

MAIN FEATURES

- Dimensions: 90x162.5x63
- 3-Phase power analyzer. Direct connection up to 90A. Back-lighted LCD display. Measurement of system and phase variables. Measurement of THD.
- Istant variab: 4x3 1/2 DGT
- Energy variab: 7 1/2 DGT
- Accuracy: ±0,5% RDG (A, V) cl.1(EN61036) - cl.2(EN61268)
- Degree of protection: IP40
- Approvals/Marks: CE

Modular Power Analyzer



SMS... safety magnetic sensor, CLS... safety magnetic unit.

NL1... Safety light curtain module

NA1... Safety gate & emergency stop module

PQT90... Power quality transducer



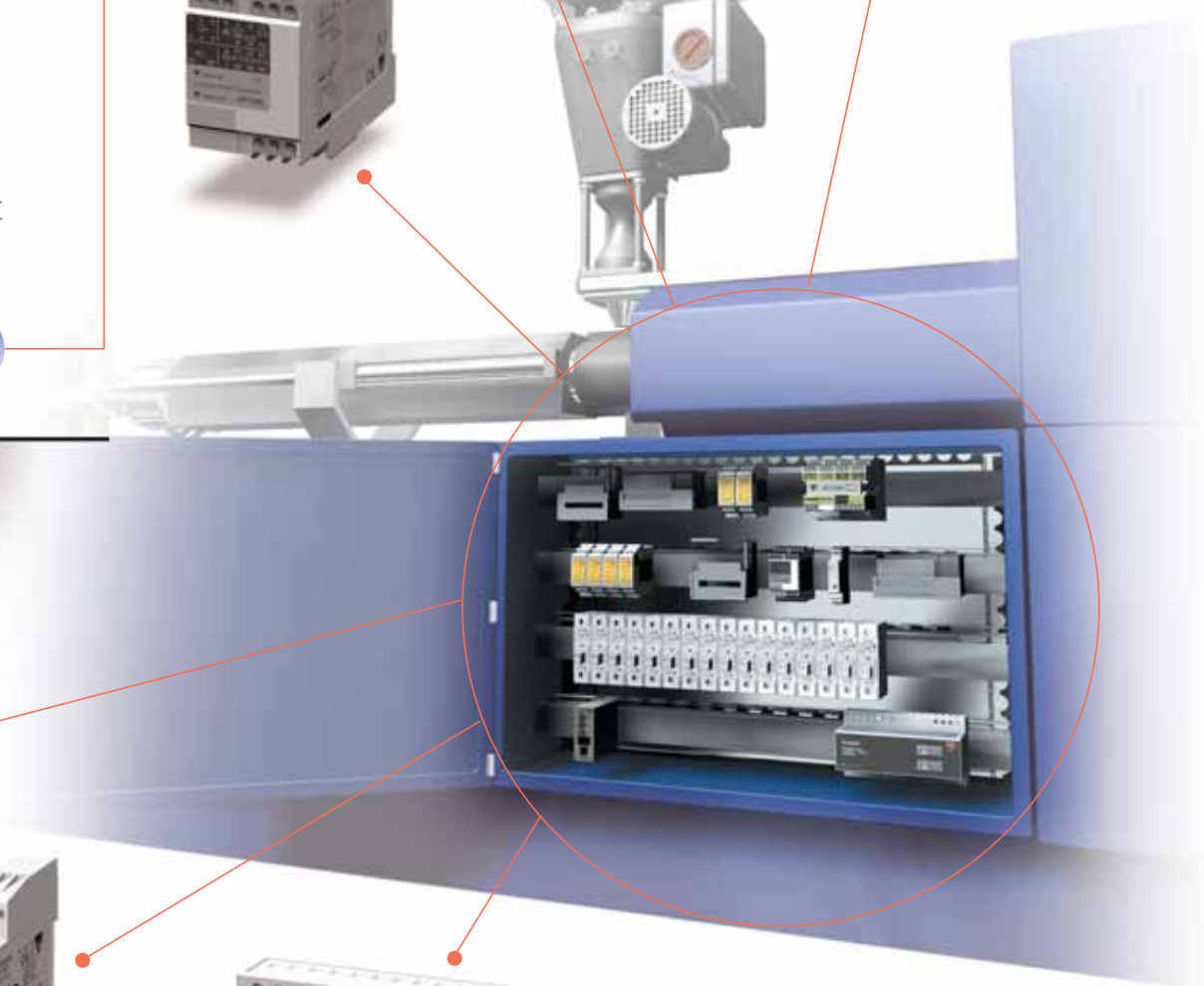
G3800...

MAIN FEATURES

- Dimens.: 77x144x70
- Modbus Interface with built-in GSM or external Radio Modem.
- No. of channels: selectable
- Power supply:
800 = 10-30 VDC
230 = 115/230 VAC
- Housing type: DIN-Rail, H8
- Degree of protection: IP20
- Operating temperature: 0°C to +50°C
- Storage temperature: -20°C to +85°C
- Remarks: up to 32 control. can be networked together via RS485 or Ethernet via converter module.

Channel Generators

CPT DIN... Power analyzer and energy meter



RX... 1-Phase solid state relay.



DIA53... Over current monitoring relay.



G3800... Modbus interface

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Zejtun - **MALTA**

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Belluno - **ITALY**

Carlo Gavazzi Controls SpA
Sensors Division
Castel Maggiore (BO) - **ITALY**

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Kaunas - **LITHUANIA**

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CARLO GAVAZZI
Automation Components

Further information on www.carlogavazzi.com/ac

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