

- **Direct control of synchronous static relay
Whole wave train (PWM)**

- fix dosing mode
- Analog setpoint converter mode

- **Switchable setpoint**

- Internal potentiometer
- External (4 ... 20mA, 0 ... 10V, potentiometer)

- **Application:**

- Control of heating resistors for:
 - Ovens, bath oils, industrial process
 - Climatic chambers
 - Test benches

- **Voltage output signal or static relay dry contact:**

- 0...10V ;



This power controller with its control analog input signal (current, voltage, internal or external potentiometer) provide a time proportional output for driving "zero-crossing" static relay for regulation of heating element.

Description:

The device supplied a pulse width output proportional to the command. The type of output (voltage or contact) and the cycle time (period) depending on the model. These parameters are factory adjustable according to the needs of the application.

The output modulation is done by:

- The potentiometer on the front graduated from 0 to 100%,
- The analog input signal 4-20mA or ,0-10V,
- The remote external potentiometer.

The choice of the setpoint type is made by a dip switch on the front with consistency check:

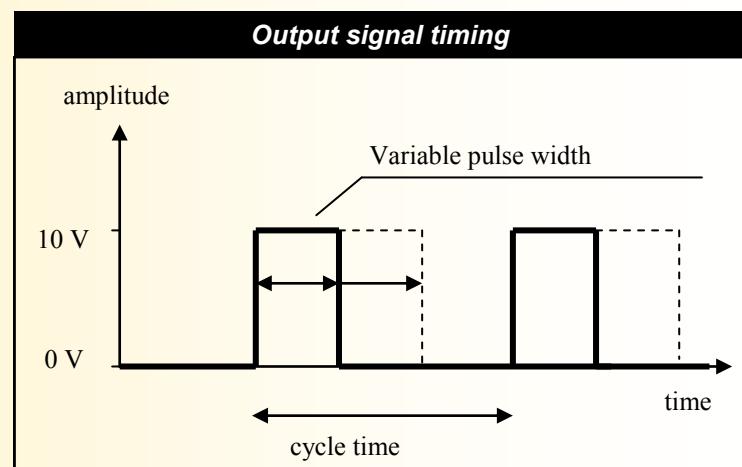
Green power LED fixed => selection OK

Green power LED flashing if no or more than one setpoint is selected (output fixed at 0%)

High flexibility of the power and the type of load to be controlled due to the wide choice of compatible SSR.

Copying the state of the output by a red LED on the front for assessing the power supplied.

Output Protection against short-circuit by limiting the output current to 35 mA (output voltage version only).



Feature:

- DIN rail mounting,
- Connection by screw terminals, (2.5 mm² max).
- Protection rating (enclosure / terminals block) IP20,
- Conformal coating,

Version and order code:

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CMi30 : 0/10V output, 1.2 s (0.833Hz) cycle time

CMi31 : dry contact output (static), 300 ms (3.33Hz) cycle time

others models available on request

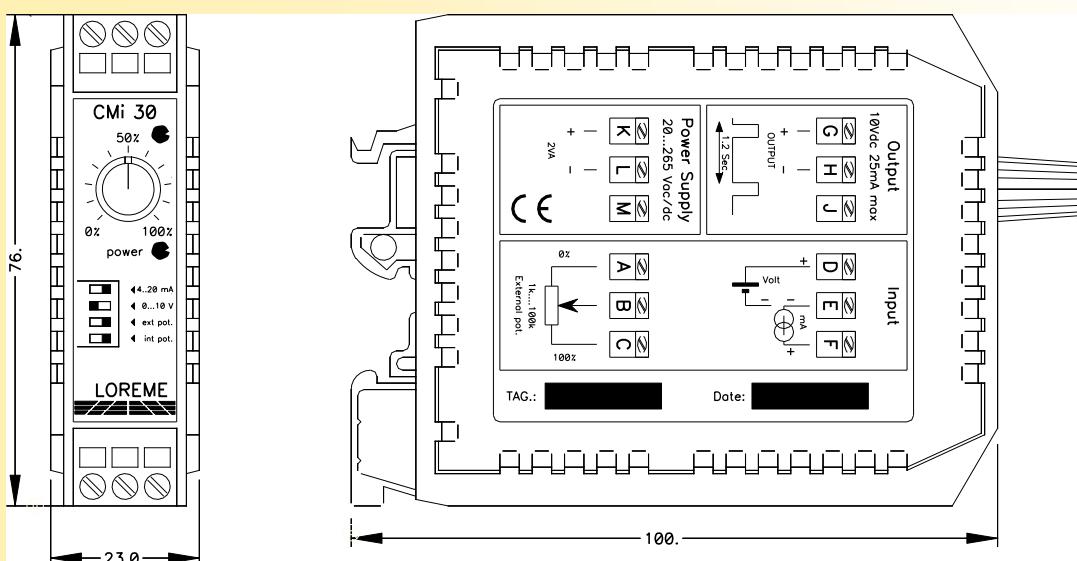
INPUT (external set point)		POWER SUPPLY	
dip switch selectable		Universal: (2 versions: standard and low voltage not polarized)	
Current input:	4...20mA	Standard: 20....to.....265 Vac/dc	
Input impedance 250 ohms		low voltage: 9 Vdc....to.....30 Vdc.	
Voltage input:	0....10 Volts	consumption < 3 VA	
Input impedance 50 k ohms			
Potentiometer:	1k100k ohms		
(reference 5V, +/- 1%, 20mA maxi)			
Thermal drift	100 ppm		
Resolution	10 bits (1024 points)		
OUTPUT		ENVIRONMENT	
CMi30 :		Operating temperature	-10 to +60 °C
Period (cycle time)	1.2 seconds	Storage temperature	-40 to +85 °C
Response time	800 ms	Humidity	95 % (no condensed)
Time resolution (10ms)	7 bits (128 points)	Dielectric strength	1500 Vrms continuous
Output signal (active)	10V	Insulation resistance	>100Mohms at 1000Vdc
Max output current (short circuit)	35 mA	Weight	105 g
CMi31 :		Protection rating	IP20 + conformal coating
Period (cycle time)	0.3 seconds		
Response time	200 ms		
Time resolution (2.5ms)	7 bits (128 points)		
Output signal (dry contact)	60Vac-dc 0.5A		

Electromagnetic compatibility 2014/30/UE / Low Voltage Directive 2014/35/UE

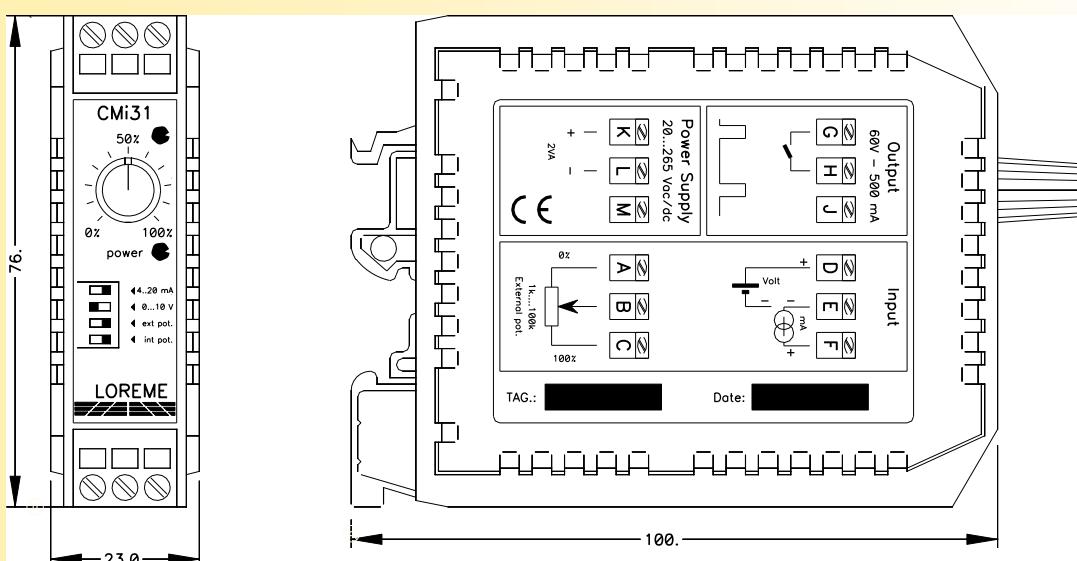
Immunity standard for industrial environments EN 61000-6-2	Emission standard for industrial environments EN 61000-6-4
EN 61000-4-2 ESD	EN 61000-4-8 AC MF
EN 61000-4-3 RF	EN 61000-4-9 pulse MF
EN 61000-4-4 EFT	EN 61000-4-11 AC dips
EN 61000-4-5 CWG	EN 61000-4-12 ring wave
EN 61000-4-6 RF	EN 61000-4-29 DC dips

EN 55011
group 1
class A

WIRING AND OUTLINE DIMENSIONS:



Voltage output model



Contact output model