

CONVERTER

DIGITAL - ANALOG

# 12GRAY

OUTPUT **0/10V**  
**0- 4/20mA**

## DESCRIPTION

This module converts the GRAY code of 8 or 12 bits in to an analog signal of 4096 points of resolution.

The came in a modular box ready to be used in a DIN EN rail, with plug-in connectors, thanks to his IP65 protection can be used outside, with a reduced space and consumption.

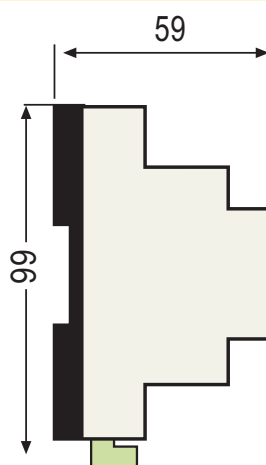
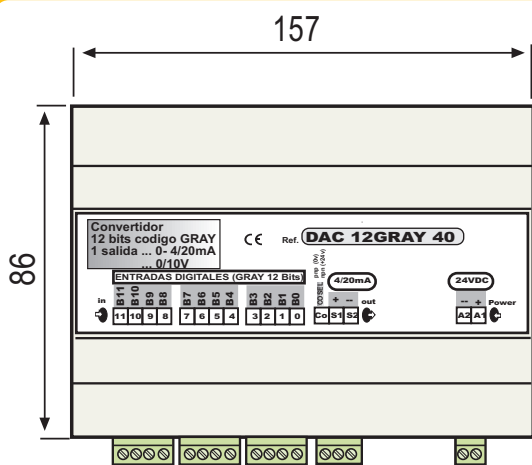
## TECHNICAL CHARACT.

- Resolution	8 bits < 0,4 % 12 bits < 0,025 %
- Working temp.	-10 / +60° C
- Supply voltage	220VAC / 24VDC (+/- 10%)
- OFFSET and SPAN internal adjustment	
- Protection against shortcuts in the output	
- Protection against polarity inversion in the current loop	

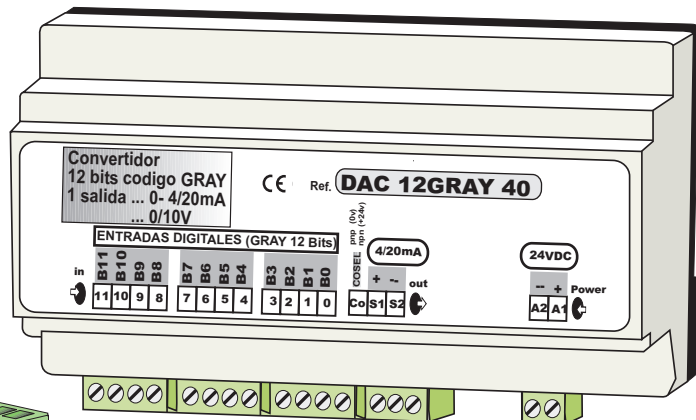
## REGULATIONS COMPLIANCE

Electromagnetic Compatibility	2004 / 108 / CE
Low voltage for amb. industrial	2006/95/CEE
Electromagnetic emissions	UNE-EN 50081-2
Electromagnetic immunity	UNE-EN 50082-2
Waste electronics(WEEE)	2002 / 96 / CE

## DIMENSIONS



Protection... IP20  
 Fast mount in rail EN50022.  
 Self-extinguishing UL94-VO.  
 Base material: Noryl VO 1550 - Black  
 Top material: Lexan 940 - Gray  
 Connection: plug-in connectors with screw.  
 max torque (M3) 0,5Nm  
 Weight... : 270gr.



WITH PLUG-IN CONNECTORS



## INPUT

- 8 to 12 bits optocoupled inputs
- Positive or negative logic (PNP or NPN)

## OUTPUT

- Load resistance (*tensión*) min 1K Ohm
- Load resistance (*corriente*) máx 1K Ohm
- Max output current (*tensión*) 25 mA
- Max output current (*corriente*) 10 mA

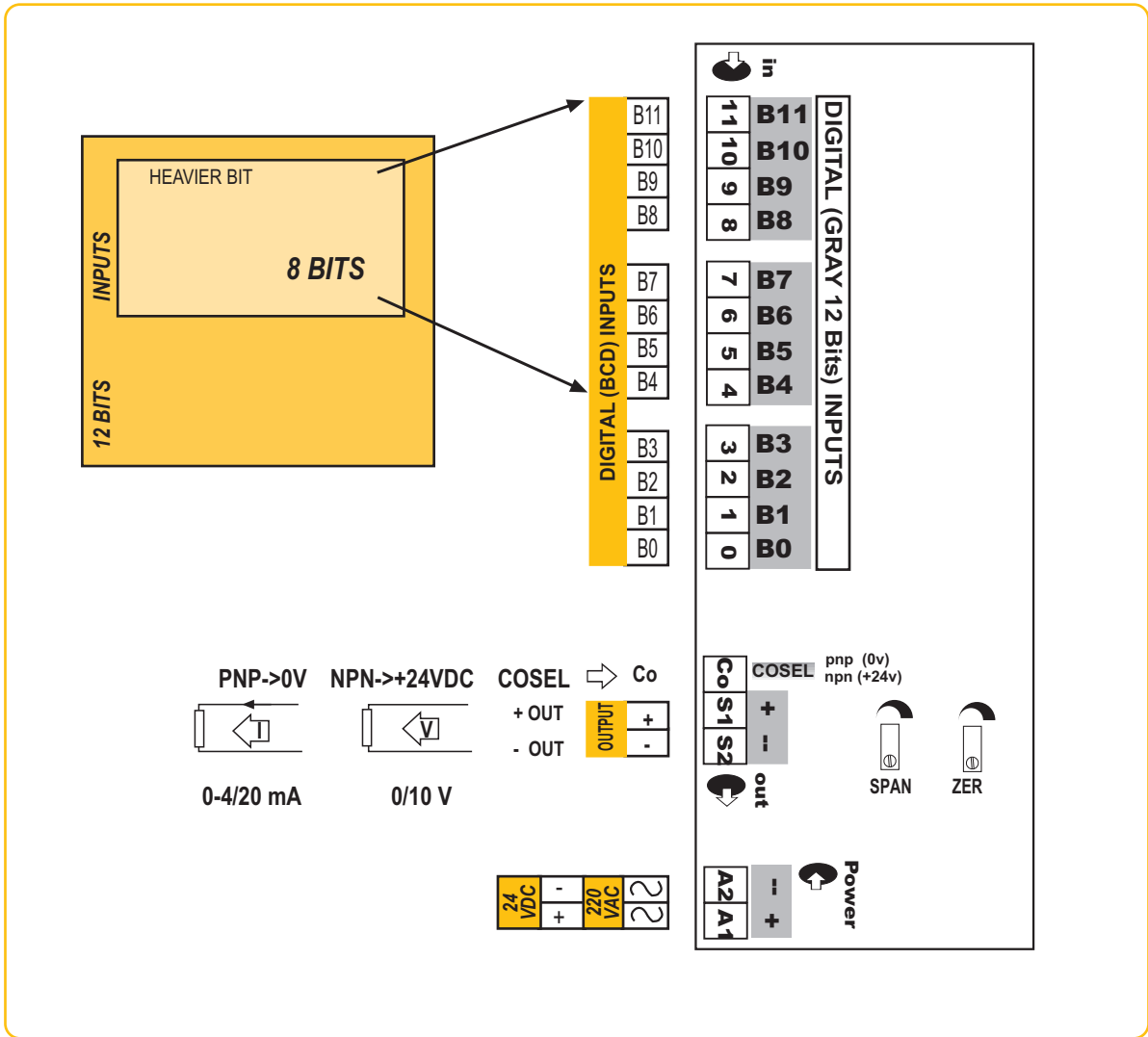
## PRECISION

Max global error	0,1 %
Linearity error	0,08 %
Thermal drift	0,5µA / °C
Thermal drift	0,2mV / °C

## MODELS (input 12GRAY)

OUTPUT	24VDC	230VAC
4 / 20mA	DAC 12GRAY-40	DAC 12GRAY-42
0 / 20mA	DAC 12GRAY-00	DAC 12GRAY-02
0 / 10V	DAC 12GRAY-10	DAC 12GRAY-12

# CONNECTIONS



## PNP OR NPN SELECTION. Digital Lines

GRAY 12 bits  
4...20mA

