



FEMA ELECTRÓNICA, S.A.

SERIE : CCT Model : 100

FUNCTION : GALVANIC ISOLATOR

Data Sheet:

162/94

REV. 1605/01

GENERAL SPECIFICATIONS

Transformation ratio	1/1 (signal output=signal input)
Voltage drop	≤3 Vdc.
Response time	50 mS.
Galvanic isolation in/out	2 KVac eff. @50 Hz/1 minute.
Accuracy	0.1% @25°C / Z=100 Ω / Ii=20 mA.
Temperature coefficient	0.01% each 10°C between -10°C and +60°C.
Operating temperature	From -10°C to +60°C.
Storage temperature	From -30°C to +80°C.
Box and cover	Polycarbonate UL-94,V-1, light grey colour, IP-40.
Terminal housing	Polycarbonate RAL-7032, UL-94,V-1, dark brown colour, IP-20.
Weight	100 gr.
Recommended maximum wire section	2.5 mm ²

DIN rail mounting, to DIN 46277 and DIN EN 50022 (35 x 7.5 mm).

INPUT SPECIFICATIONS:

Input current (Ii)	0...50 mA.
Permissible overload	110 %

OUTPUT SPECIFICATIONS:

Output current	0...50 mA.
Ripple	0.5% @ 3 KHz.
Admissible load	0...750 Ω.
Connections (Figure 1)	Terminal 4, output 1. Terminal 5, common for outputs. Terminal 6, output 2. Use output 1 when load impedance be ≤ 100 Ω. Use output 2 when load impedance be ≥ 100 Ω. Do not use both outputs simultaneously.

CONNECTIONS

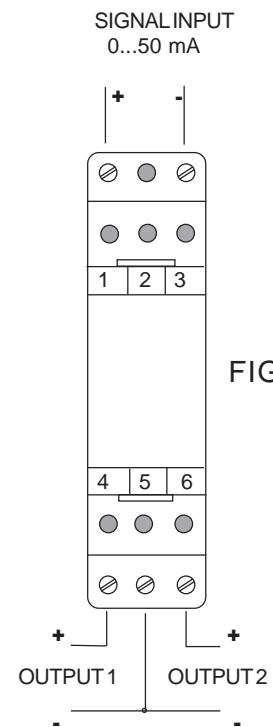
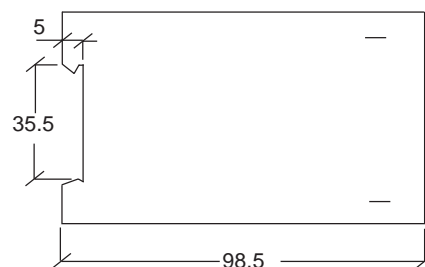
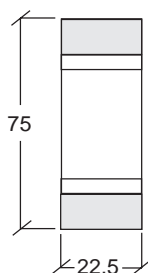


FIGURE 1

MECHANICAL DIMENSIONS (m.m.)



INSTALLATION



PRECAUTIONS.- The installation and the future use of this unit must be done by suitably qualified personnel.

This unit has not AC (mains) switch, neither internal protection fuse, it will be in operation as soon as power is connected. The installation must incorporate an external mains switch with a protection fuse, except for Serie BDF which has the fuse installed. The value of the fuse is indicated on the tables below.

This unit can operate with Vac or Vdc, verify that the proper power option is installed for the power to be used.



SAFETY PRESCRIPTIONS.- The unit has been designed and tested under UNE 20553 rules and is delivered in good condition. This data sheet contains useful information for electrical connections. Do not make wiring signal changes or connections when power is applied to the unit. Make signal connections before power is applied and, if reconnection is required, disconnect the AC (mains) power before such wiring is attempted.

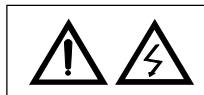
The unit cannot be installed in open places. Do not use until the installation is finished.

POWER SUPPLY.- The power supply must be connected to the adequate terminals (see the connection instructions) The characteristics of the power supply are showed on the side label. Please make sure that the unit is correctly connected to a power supply of the correct voltage and frequency. Do not use any other power supply otherwise permanent damage may be caused to the unit.

Do not connect the unit to power sources heavily loaded or to circuits which power loads in cycle on-off or inductive loads.

WARNING : If the power supply is DC voltage, be careful with the polarity indicated for each terminal. (see the connection instructions).

SAFETY CONSIDERATIONS



PRESCRIPTIONS.- Before starting any operation of adjustment, replacement, maintenance or repair, the unit must be disconnected from any kind of power supply.

Keep the unit clean, to assure good functioning and performance, use for it a clean and humid rag. Do not use abrasive products, solvents, alcohol, etc... to clean the red filters and plastic parts of the unit.

To prevent electrical or fire hazard, do not expose the unit to excessive moisture.

Do not operate the unit in the presence of flammable gases or fumes, such an environment constitutes a definite safety hazard. The unit is designed to be mounted in a metal panel.

If the unit shows signs of damage, or is not able to show the expected measures, or has been stored in a bad conditions or a protection failure can occur, then do not attempt to operate and keep the unit out of service.

IN CASE OF FIRE



- 1.- Disconnect the unit from the power supply.
- 2.- Give the alarm according to the local rules.
- 3.- Switch off all the air conditioning devices.
- 4.- Attack the fire with carbonic snow, do not use water in any case.

WARNING : In closed areas do not use systems with vaporized liquids.

RECOMMENDED FUSES FOR EACH SERIE OR MODEL

Serie or model	Value Fuses (mA)		
	230 Vac	115 Vac	24 Vdc
MAG-35, MAG-983, DAN, MAG-BAR, R, TF-100, RD-232, VIR, MAG-45	50	100	
C-BAR and E-BAR			150

DECLARATION OF CONFORMITY CE

FEMA ELECTRONICA, S.A.
 Altimira, 14 (Talleres 14 - Nave 2)
 E08210 - Barberà del Vallès (Barcelona - SPAIN)

We hereby declare under our responsibility, save superior authorized criterion, that the equipments identified with the four digits of the year stamped on the characteristics label, and for the following series, have been manufactured in accordance with the technical specifications of the product. The equipments comply with the valid rules and regulations detailed below together with the exceptions.

REGULATIONS: SERIES: VIR-30; C-BAR; E-BAR; CCT-100; MAG-35-32.

EUROPEAN DIRECTIVE FOR LOW VOLTAGE D73/23/CEE AMENDED BY D93/68/CEE.

Equipments powered from 50 to 1000 Vac. and /or from 75 to 1500 Vdc.
 Except for Series "VIR-30".

EUROPEAN DIRECTIVE FOR THE SAFETY D92/59/CEE.

ELECTROTECHNICAL REGULATION FOR LOW VOLTAGE (RBT) ITC 21, ITC 29, ITC 35.
 Equipments with power supply lower than 50 Vac. and/or 75 Vdc.

EUROPEAN DIRECTIVE FOR ELECTROMAGNETIC COMPATIBILITY D89/336/CEE AMENDED BY D93/68/CEE, ACCORDING TO RD1950/1995 (1 th December).

IMMUNITY: EN 50082-1 (1992)

CEI 801-2:UNE 20801-2-94 (Level 3)
 Except for Series MAG-35 with open lids which pass to level 2.

CEI 801-3:UNE 20801-3-94 (Level 3) R and RD series.
 Pending to achieve compliance for the rest of the Series.

CEI 801-4:UNE 20801-4-94 (Level 3)
 Except for Series DAN, MAG-983 and Models MAG-BAR1 and MAG-BAR2.
 Francisco Guàrdia

Quality manager
 Barberà del Vallès, 1998

EMISSION.

UNE 50081-1 (1992); EN 55022 Class CISPR22
 Except for power supplies from 12 to 15 Vdc.

UNE 20553-90: CEI 348-78: HD 401 S1
 SECURITY RULES FOR ELECTRONIC MEASURING INSTRUMENTS.
EN 60204-1 Y prEN 60204-1 CAP. 12, 13
 ELECTRICAL SECURITY PRESCRIPTIONS.

UNE 21352-76: CEI 359-71
 OPERATING QUALITY EXPRESSIONS FOR ELECTRONIC EQUIPMENTS.

UNE 20652-80: CEI 284-68
 BEHAVIOUR RULES INHERENT TO THE HANDLING OF ELECTRONIC EQUIPMENTS
 AND OTHER SIMILAR TECHNICS.