

DIN-100C

Electronic Regulator for Proportional Valves at Single Solenoid in the DIN 43650

The system control DIN-100C has been created to pilot proportional valves at single solenoid at open ring (valves without the internal position reference). The regulator is integrated in a box DIN 43650 to be mounted directly on its valve.

TECHNICAL CHARACTERISTICS:

ELECTRICAL

SUPPLY VOLTAGE:.....from 8V @ 30V
CURRENT:.....18mA @ 12V
OUTPUT VOLTAGE POTENTIOMETER:.....+ 5V
MAX. OUTPUT POWER POTENTIOMETER:.....1W
BEST POTENTIOMETER VALUE:.....4K7/10K
INPUT REFERENCE:..F00168-0000-000....0 – 4,5 V
.....F00168-0000-000.....PWM
.....F00168-0000-10V.....0 – 10V
F00168-0P0N-000.... Ad Impulsi con Step da 10mA@50mA
ZONE OFF:.....F00168-0000-000.....0V
.....F00168-0101-000.....2,5V
OPERATING CURRENT RANGE:.....from 0.05A @ 2,5A
CURRENT REGULATION... Imin., Imax:.....0 – 50%
OPERATING TIME RANGE:.....0 – 10Sec
PWM:.....30Hz- 330Hz
RESOLUTION PWM:.....9 Bit
TOLLERANCE:.....+/-2%
OPERATING TEMPERATURE RANGE:.....-15°C ÷ +70°C
CONNECTOR:.....with 1mt of cable or Din 43650
OUTPUT PROTECTION OF THE SHORT-CIRCUIT

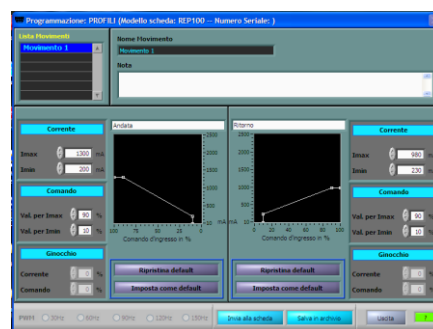


MECHANICAL

BOX in.....abs
PROTECTION LID :.....Nylon glass
CONTACT RESISTANCE:.....<4mOhm
GRIPPING CABLE:.....Pg9
DIAMETER CABLE:.....5X0,50
ENVIRONMENTAL SEALING:.....IP65
ELECTRIC INSULATION:.....VDE0110
COLOR CONNECTOR:.....Nero
WASHER
FLAT OR PROFILE:.....rubber Nitrile -40 +90°C
.....Silicone -40 +125°C

PROGRAMMING PARAMETRES :

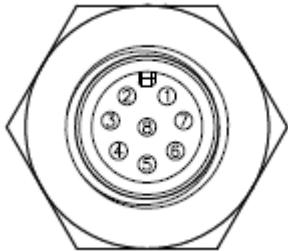
Current I min., Current I max., Time of Ramp,
Reference marks them Input , PWM of job,



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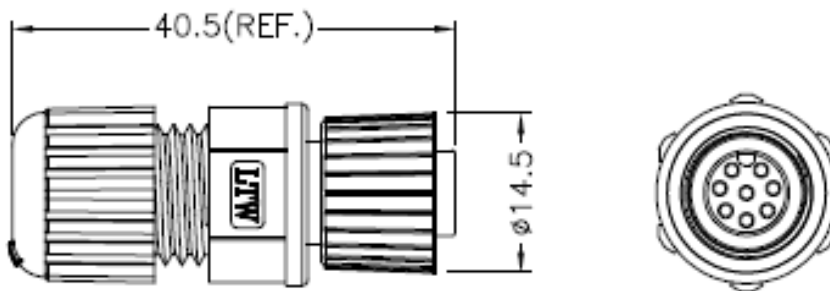
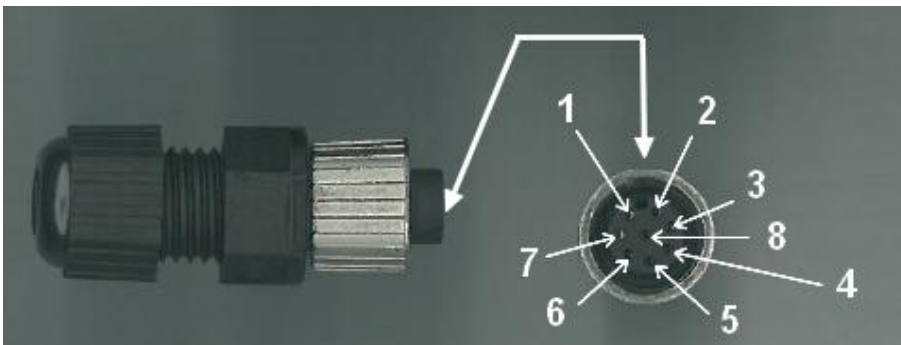
Electronic Regulator for Proportional Valves at Single Solenoid in the DIN 43650

CONNESSIONE M12 -08PMMS-SH8001 E CONNETTORE DIN



- 1- Alimentazione 8 -30 Vdc
- 2- Massa - GND
- 3- Out Positivo 5V (per potenziometro)
- 4- In segnale analogico (centrale potenziometro)
- 5- Can H
- 6- Can L
- 7- Can H
- 8- Can L

VISTA INTERNA DEL CONNETTORE VOLANTE



**PRODUCT IN COMPLIANCE WITH THE EUROPEAN DIRECTIVE RHOS
2002/95/CE**

Codice Articolo: F00168-0000-000 Din100 standard

F00168-000P-000 Din100 with input connect din male

F00168-000P-10V Din 100 with input connect din male 0-10 V

F00168-0101-000 Din100 with input 2,5V out PWM 0 (it is stop)

F00168-0P0N-000 Din 100 with input to Step o 10mA at 50mA



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WORKING

The regulator REP-100 is integrated in a box DIN 43650 that directly concurs the fast logon on the valves, and thanks to a complete resin envelope can assure high reliability also in the most extreme conditions.

The system works on the principle of pulse modulated in amplitude, called PWM, which is back set ,acting in current to get an output current on the solenoid proportional at the input signal.

Protections against short circuit escape have been previewed , more over there will be current limitations in case of very high temperature and protection against the reversal of polarity of the power supply.

CALIBRATION

The DIN-100 can be regulated in accordance with any requirements by a palmar the programming PES93C46 or by a PC thanks to a dedicated software GAMMA1 SUITE realized on platform LABVIEW.

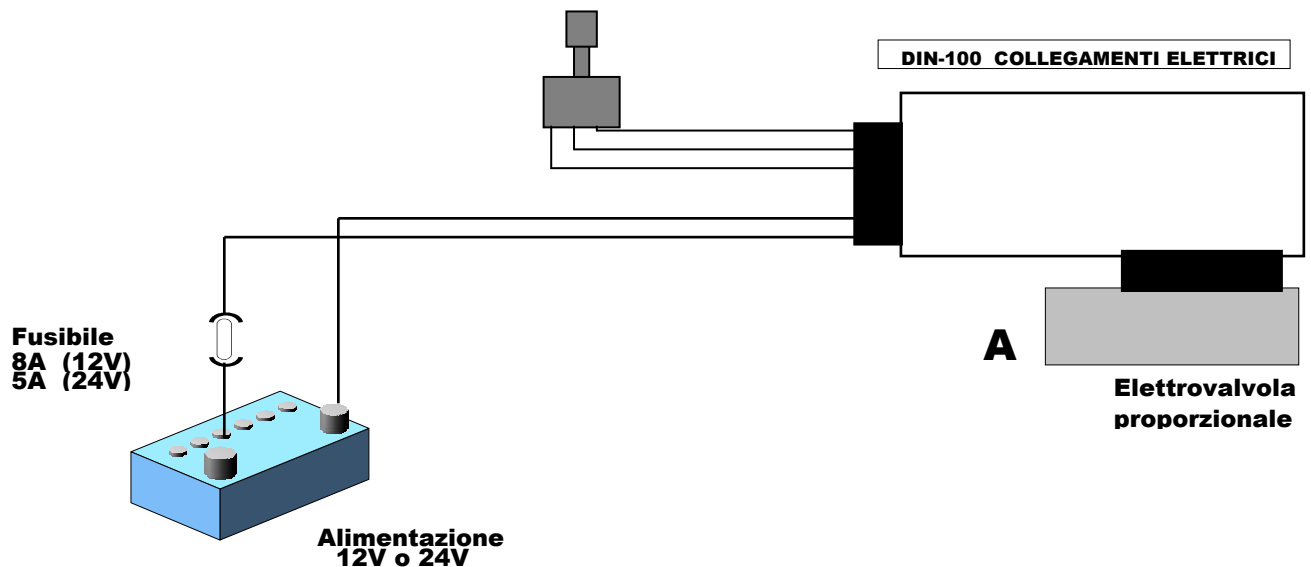
Inserting the cable in the connector the system will be automatically in the modality of programming and on the display of the PES93C46 or the monitor of the PC will be visualized the data contained in the DIN-100.

Using the keys "up" and "down" it is possible to slide the different data , modifying the parameters wished by the numerical keyboard, and confirming them with "enter" successively , the successive visualization appear till the inscription program .

To this point pressing the key F2 you can programme the DIN100 with new data.

It is possible to provide a DIN-100 already pre-calibrated to customer specification.

INSTALLATION F00168-0000-000 Din 100 Stand



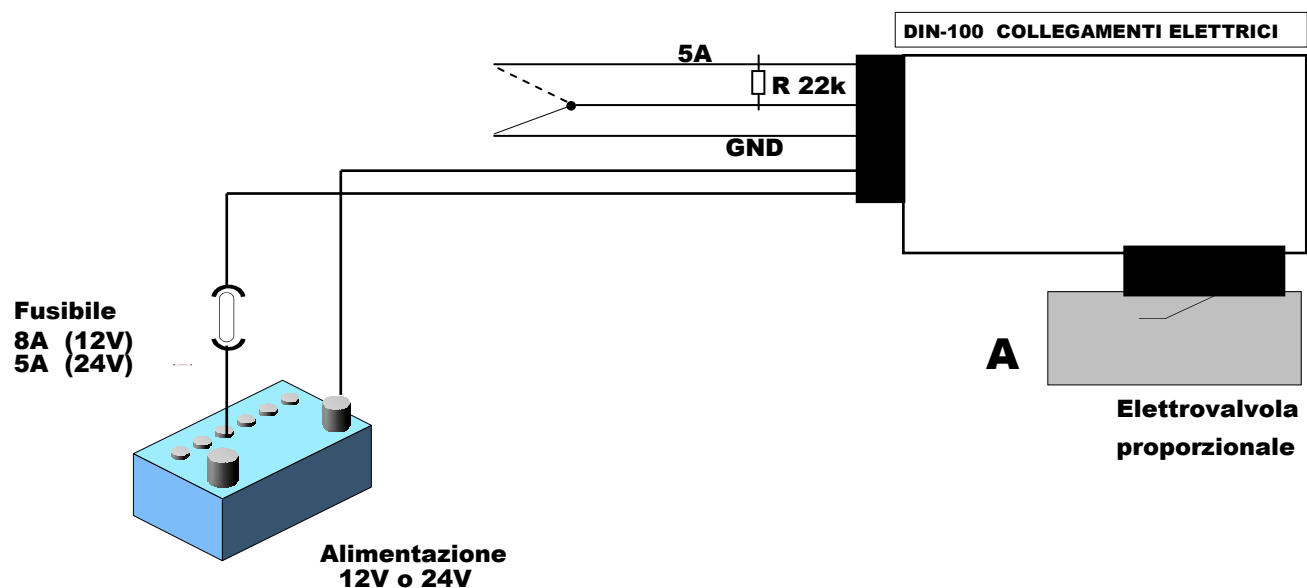
POWER SUPPLY
12V o 24V



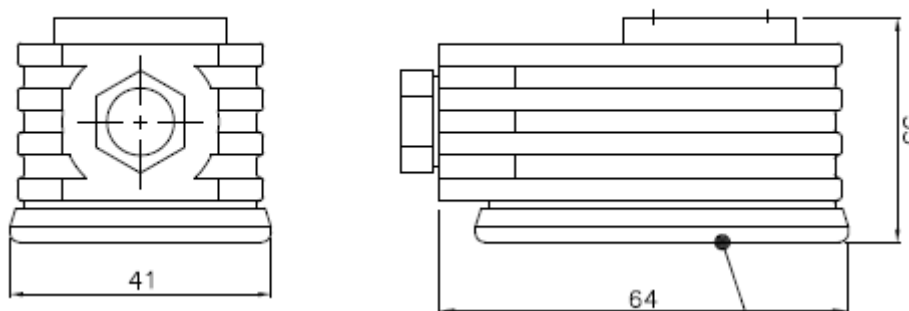
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Electronic Regulator for Proportional Valves at Single Solenoid in the DIN 43650

INSTALLATION F00168-0P0N-000 Din 100 with input to Step o 10mA at 50mA



DIMENSIONS



The company assume no responsibility for any errors which may appear in this document, and reserves the right to change device or specifications detailed herein at any time without notice.

