CEP.S.. Electronic amplifier Plug version for single solenoid proportional valve.

The electronic amplifier Plug version was designed in compliance whit EN 175301-803 (ex DIN43650), for direct mounting on the valve solenoid. The CEP.S can used whit proportional valves XD.*.A..., XDP.*.A..., XP.3..., XQP.*..., CXQ.3.. .

The output stage operates on the pulse width modulation principle (P.W.M.) and is provided with current feedback in order to obtain a solenoid output current proportional to the reference input signal.

Gain, minimum current and rise and fall ramp time adjustments are possible through the corresponding potentiometers fitted on top side of the card, and can be accessed by slackening the relative screw and opening the cover of the connector. While the output current to the solenoid can be measured via the Valve Current test points.

SERIE 2, has the diode reverse polarity protection inside on the power line.

CEP.S...	
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Functional block diagram	Ch. IX page 3
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Settings topography	Ch. IX page 3
Reference signal	Ch. IX page 3

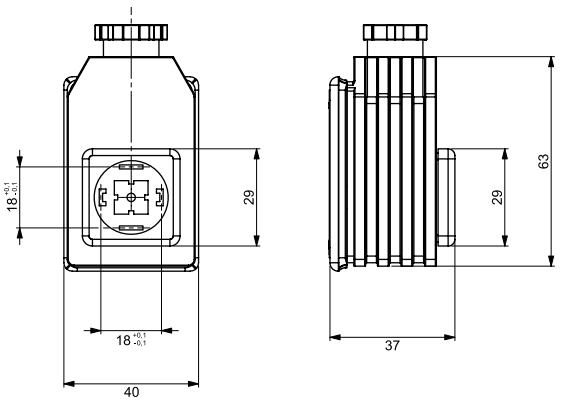
Ordering code

CEP	Electronic amplifier Plug version
S	Single solenoid control
RS	Symmetrical ramp
*	Max. output current (Imax) **X** = 0.88 Amp **Y** = 1.76 Amp **Z** = 2.50 Amp
0	Input reference signal 0 ÷ 10V
*	PWM frequency **2** = 400 Hz (per XP.3) **3** = 150 Hz (standard)
00	**00** = No variant **RW** = **Electrical circuit protected with silicone paint, for more moisture resistance**
2	Serial number

Electrical specifications

Power supply	12VDC o 24VDC
Peak supply	40VDC
Minimum power supply	10.5VDC
Required power	30W
Type of protection	IP65
Output current All range values are come from the ordering code	Imax = 0.88Amp Imax = 1.76Amp Imax = 2.50Amp
External reference potentiometer	+10V, Imax =5mA
Input signal reference	0 ÷ 10V
I minimum adjustment	0 ÷ 50% of Imax
Gain adjustment	30% ÷ 100% of Imax
Ramp time adjustment	0 ÷ 10 secondi
Operating Ambient temperature	-10C° ÷ +70°C
Current test point	1V = 1Amp
Weight	Kg. 0, 250

Overall Dimensions of box and connector



• CE registered mark for industrial environment with reference to the electromagnetic compatibility. European norms:
- EN61000-6-2 general safety norm - industrial environment
- EN61000-6-4 emission general norm - residential environment

• Product in accordance with **RoHS** 2011/65/UE Europe Directive.

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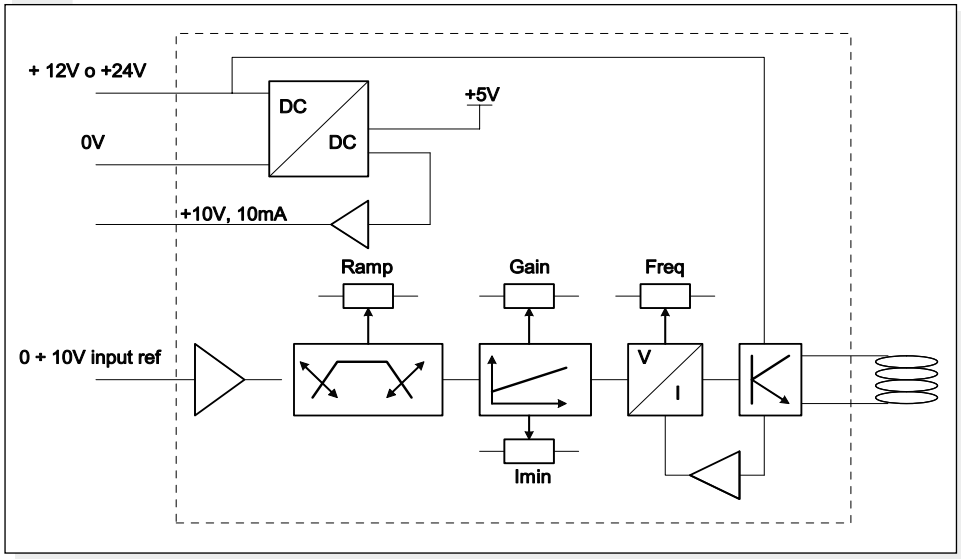
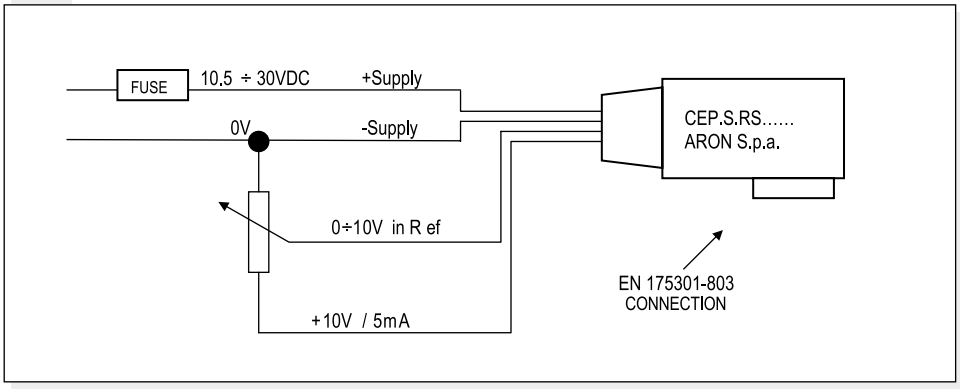
FUNCTIONAL BLOCK DIAGRAM



ELECTRICAL EN 175301-803 CONNECTIONS



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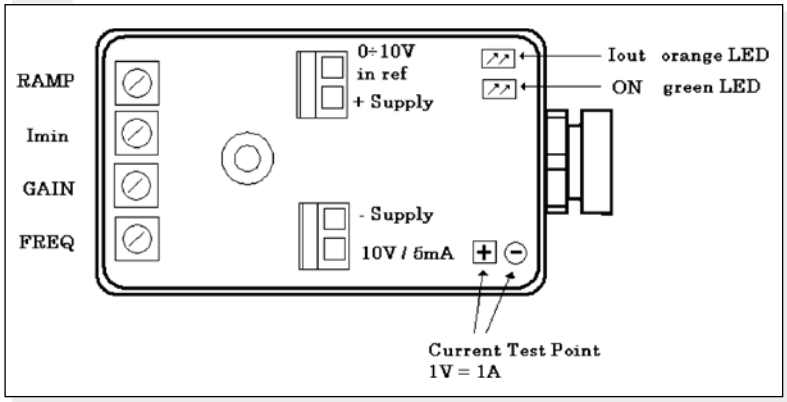
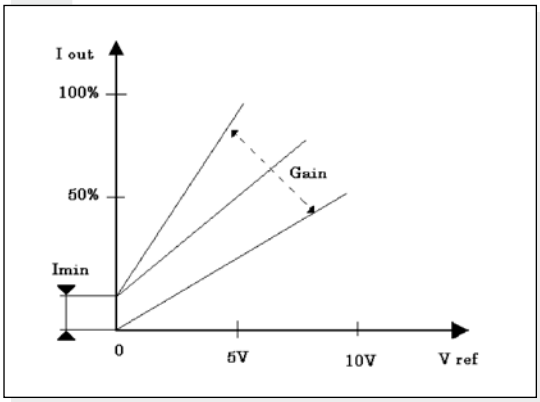
SETTINGS TOPOGRAPHY



REFERENCE SIGNAL



POWER SUPPLY AND ELECTRICAL CONNECTIONS

The power supply voltage must be rectified and filtered, whit a capacitor 4700 uF minimum. **Protect the power supply circuit whit 3 A fuse. Respect the polarity supply.** Use the cabling wire whit 0.75 mm^2 or 1.0 mm^2 section. In order to facilitate the operation of wires connection, extracts the card from the enclosure, introduce the wires through the gland-nut, connects the wires to the clips and finally to lodge the card to the inside of the connector.

Installation and settings, see instruction manual (code P35160008) supplied with the product.