Equipments compling the electromagnetic compatibility prescriptions based on the 89/366/EEC directive.



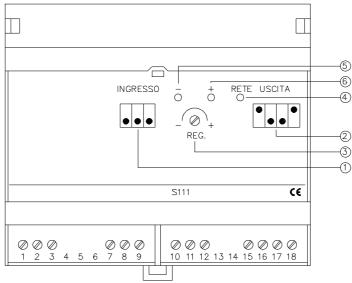
Reference norms:

EN 50081-2 Industry environment emission norm EN 50082-2 Industry environment immunity norm

S111 is a frequency/current converter made by digital technology, to allow a wide-range full-scale and input frequency programmation starting from very low frequencies without ripple's problem on output. S111 has optoisolated inputs that allows the connection with lot kinds of sensors : reed, NPN (2 or 3 wires connection), PNP, NAMUR, 24Vdc pulses, photoelectric sensors and Hall effect sensors. Three DIP-switches on front panel allow to select 8 different full-scale ranges, and a precision potentiometrer 20 rounds allows to control finely full-scale in the selected range. Four DIP-switches allows to select the output you want:

- current 4 20 mA (both active and passive)
- current 0 20 mA (both active and passive)
- voltage 1 5 Vdc (voltage 2 10 Vdc available on request)
- voltage 0 5 Vdc (voltage 0 10 Vdc available on request)

Box is made in autoextinguishing and sockproof ABS, to be fasten on 35 mm guide (DIN 6277), or to be fasten by screw .



1) DIP-switch "INGRESSO": selection of frequency input range

2) DIP-switch "USCITA" : selection of output.

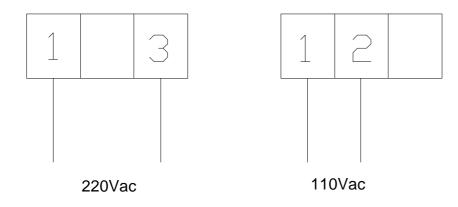
3) Potentiometer "REG." : fine regulation of full-scale.
4) green LED "RETE" : warning powered instrument.

5) red LED "-" : warning input frequency lower than 3% full-scale.
6) red LED "+" : warning input frequency upper than 90% full-scale.

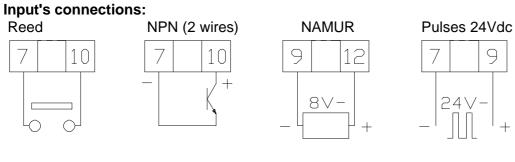
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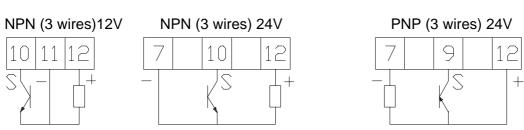
CONNECTIONS

- POWER SUPPLY

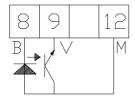


INPUTS









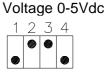
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- OUTPUTS DIP-switches' "OUTPUT" prearrangement: Current 4-20mA Voltage 1-5Vdc

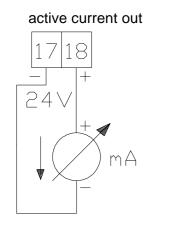


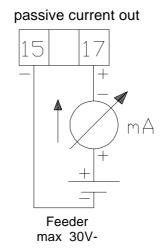


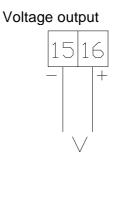




output wiring schematics:





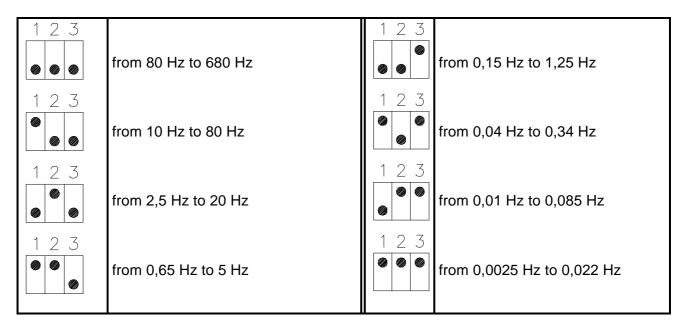


SELECTION OF FREQUENCY RANGE AND FULL-SCALE CALIBRATION

This operation must be done only by an engeneer, it is necessary to have a frequency generator

IF YOU REQUIRES IT, EQUIPMENT CAN BE SOLD CALIBRATED YET WITH THE FULL-SCALE YOU WANT.

The 8 full-scale ranges are choosen by DIP-switches "INGRESSO", as shown in the table below.



Optional is possible to program equipment for a full-scale very low, till 1 pulse per 34 minutes.

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HOW TO CALIBRATE:

- Put DIP-switches' triggers "INGRESSO" in position corresponding the range having necessary full-scale.
- Connect at equipment's input a frequency generator and control it for an output corresponding at half full-scale you want.
- Put DIP-switches' triggers "USCITA" in position corresponding output's type you want .

If you select an output in current, connect an amperometer 20mA capacity between clamps 17 and 18 (17 negative and 18 positive).

If you select an output in voltage, connect a voltmeter 5Vdc capacity between clamps 15 and 16 (15 negative and 16 positive).

- Regulate potentiometer on equipment's front panel till you will read the following value:

12 mA if output is prearranged for 4 - 20 mA current

10 mA if output is prearranged for 0 - 20 mA current

3 Vdc if output is prearranged for 1 - 5 Vdc voltage

2,5 Vdc sif output is prearranged for 0 - 5 Vdc voltage

FEATURES

- Power : 110 - 220 Vac +/-10% 50/60 Hz

 Consumption : 3 VA

- Input : optoisolated for reed, open-collector NPN 2 and 3 wires, PNP,

NAMUR, 24Vdc pulses, photoelectric sensors, Hall effect

sensors

- Pulses' frequency: from 1 pulse per 2 minutes till 640 Hz

- Resolution : 0,4%

 Stability : +/- 0,005% / °C - Temperature : 0° / +50°C - Humidity : 90% at 40°

: 90% at 40°C (not condensing)

- Size : 105 x 90 x 73 mm

- Weight : 450 a

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