

SIGNAL CONVERTER WITH GALVANIC SEPARATION SPECIAL VERSION: 0 – 100 V_{DC} and 0 - 200V_{DC} INPUTS

S109REG-X7

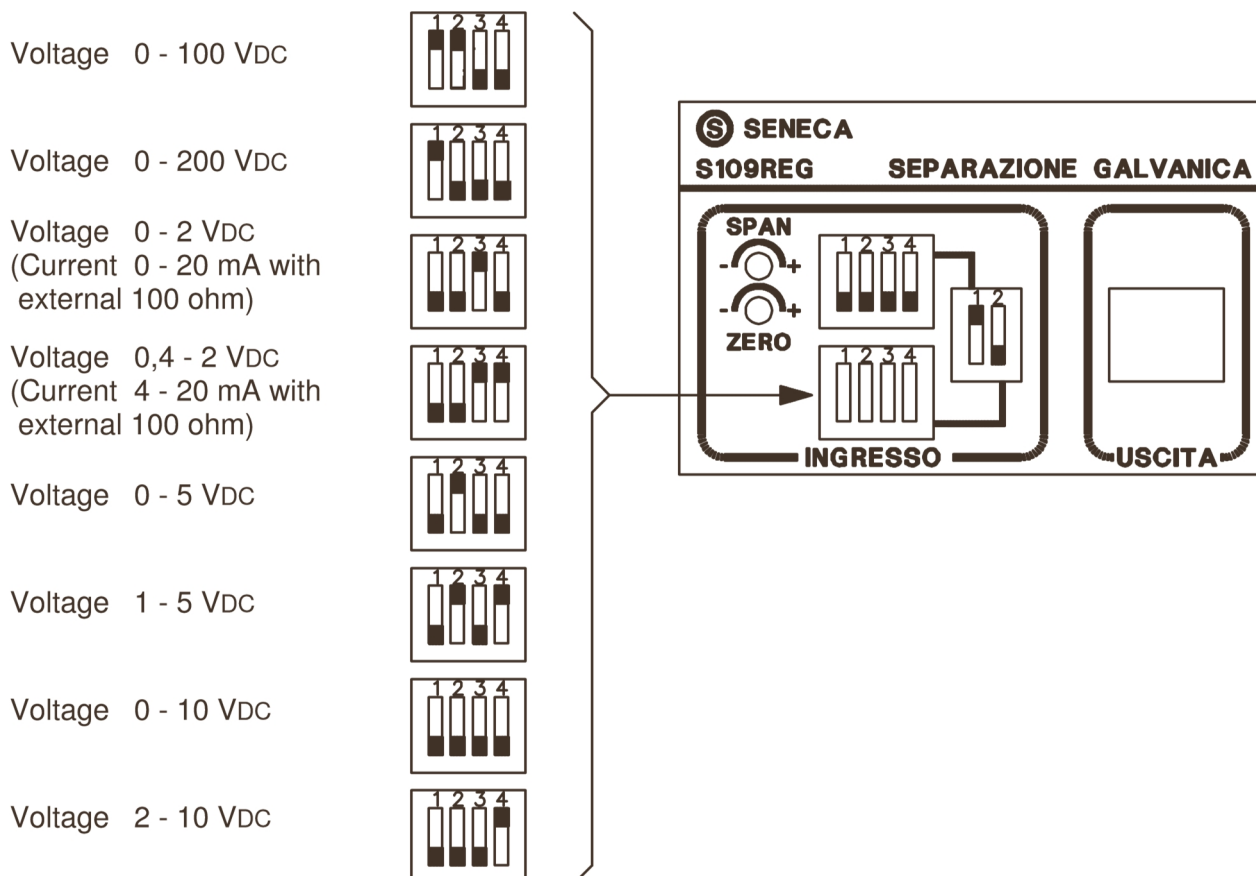
Signal converter module with 3500 Volt galvanic separation between the input signal and the output signal obtained through linear optoisolator.

INPUT SET-UP

The input can be set up using the respective DIP switches on the front panel for either a series of standard preset signals or a signal that can be set by the user.

STANDARD INPUT SIGNALS

The positioning of the DIP switches for the various standard preset input signals is provided below:



SIGNAL THAT CAN BE SET BY THE USER

The signal that can be set by the user must remain in the following ranges:

- Current : ZERO shift in the range of ± 14 mA
SPAN in the range of 2 - 20 mA.
- Voltage : ZERO shift in the range of ± 7 V_{DC}
SPAN in the range of 1 - 10 V_{DC}.

The user must set the signal by connecting a 20 V_{DC} capacity tester to the test-point as follows: Terminal 1 (-); Terminal 4 (+).

Supply an input signal corresponding to the lowest value desired for the scale and then rotate the ZERO trimmer until a voltage of 0 V_{DC} is read on the tester.

Supply an input signal corresponding to the highest value desired for the scale and then rotate the SPAN trimmer until a voltage of 10 VDC is read on the tester.

ZERO shift
from - 7 VDC to - 3 VDC
from -14 mA to - 5,5 mA



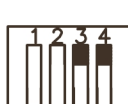
ZERO shift
from - 4,5 VDC to + 4,5 VDC
from - 9 mA to + 9 mA



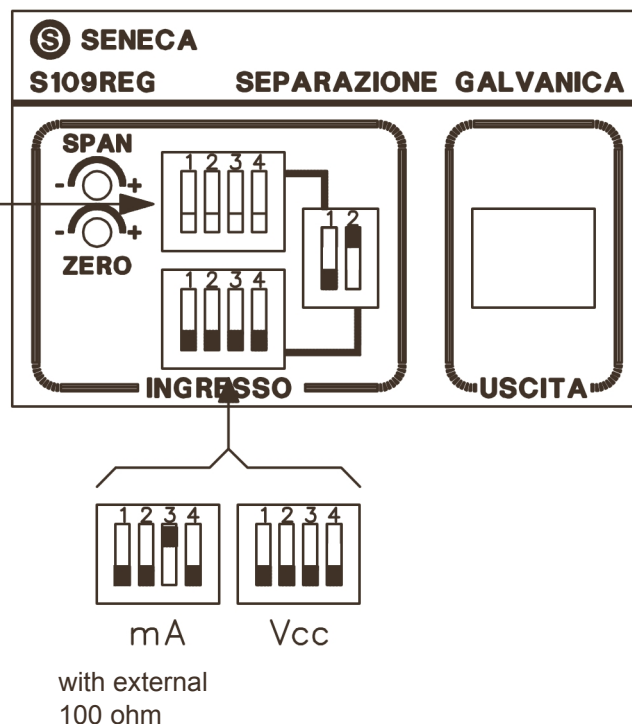
ZERO shift
from + 3 VDC to + 7 VDC
from + 5,5 mA to + 14 mA



SPAN
from 2 VDC to 10 VDC
from 4 mA to 20 mA



SPAN
from 1 VDC to 2 VDC
from 2mA to 4 mA



SIGNAL THAT CAN BE SET BY THE USER FOR SPECIAL FIELDS

0 -100 Vdc and 0 - 200 Vdc

ZERO shift
from -70 VDC to -30 VDC
from -140VDC to -60 VDC



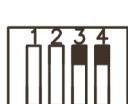
ZERO shift
from -45 VDC to +45 VDC
from -90 VDC to +90 VDC



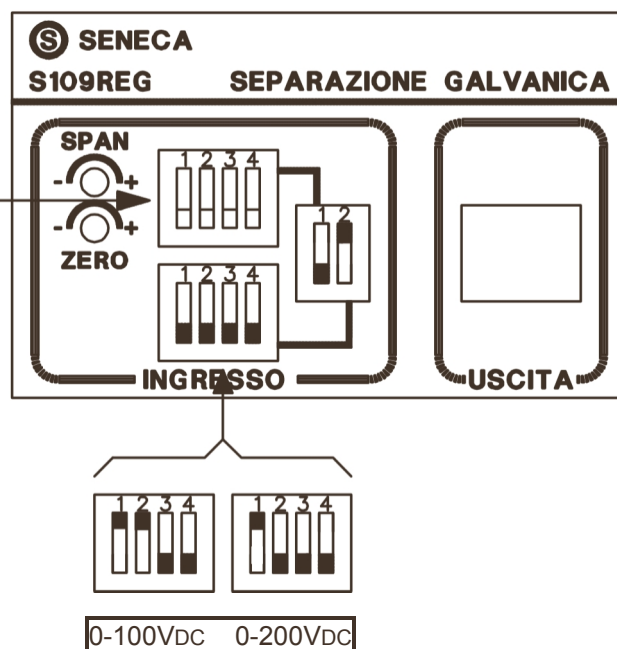
ZERO shift
from +30 VDC to +70 VDC
from +60 VDC to +140 VDC



SPAN
from 20 VDC to 100 VDC
from 40 VDC to 200 VDC



SPAN
from 10 VDC to 20 VDC
from 20 VDC to 40 VDC

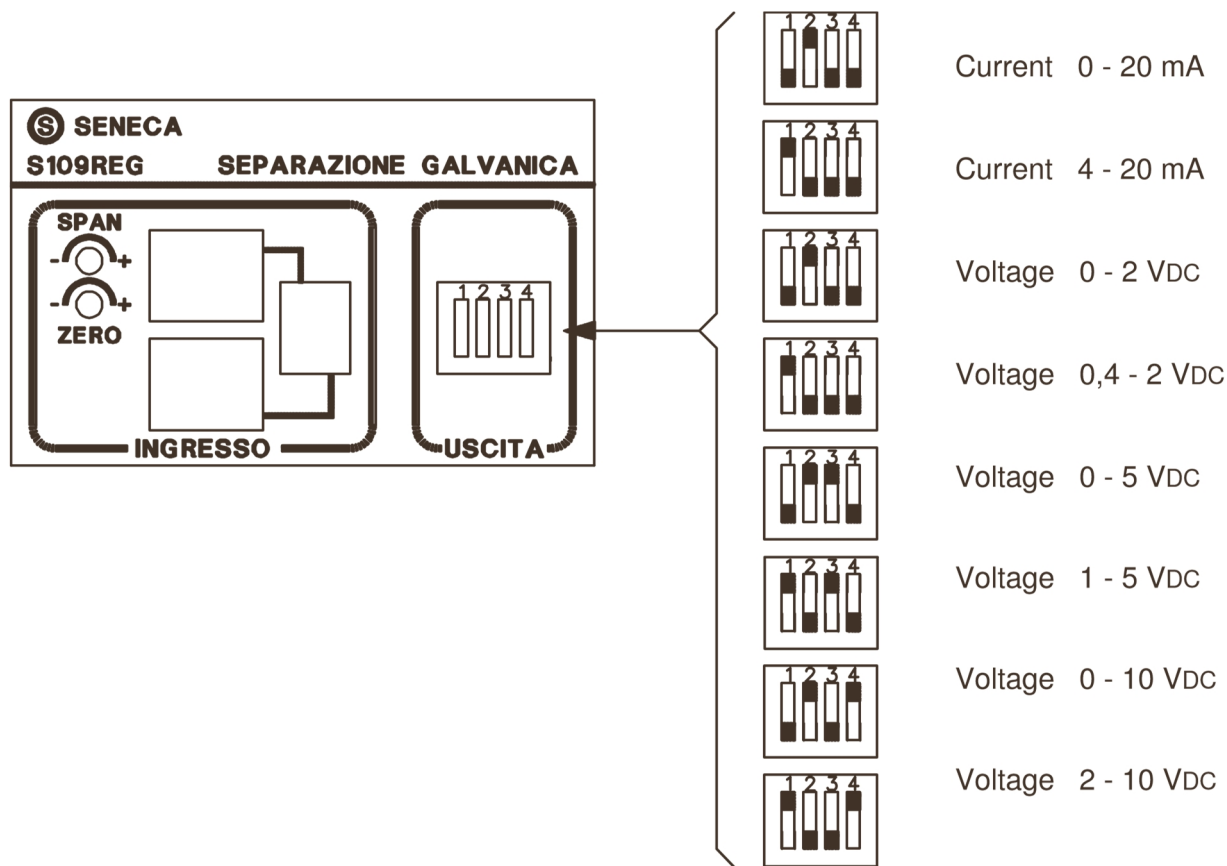


OUTPUT SET-UP

The user can set up the output for a series of standard preset signals by using the respective DIP switches on the front panel.

STANDARD OUTPUT SIGNALS

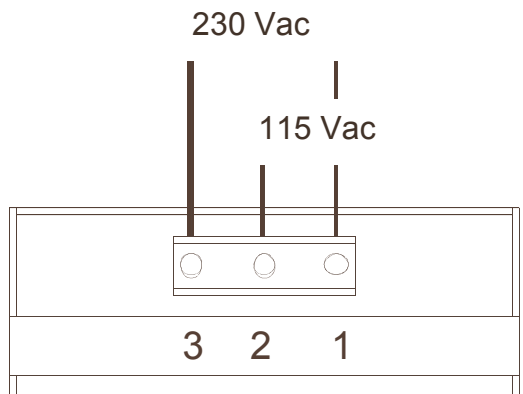
The positioning of the DIP switches for the various standard preset output signals is provided below:



TECHNICAL FEATURES:

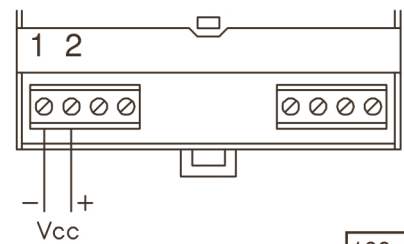
- Input : 115 / 230 VAC +/- 10% 50 / 60 Hz selectable in the field
- Consumption : 1.5 VA
- Input resistance : 100 Ohm in current, 1 mohm in STANDARD voltage
200 kohm for SPECIAL voltage input signals
- Transmission error : < 0.5 %
- Temperature coefficient : + / - 0.005% / °C
- Insulation voltage : 3500 Volt
- Temperature/Humidity : 0 - 50°C / 90% at 40°C (non-condensing)
- Dimensions/Weight : 52.5 x 95 x 69 mm / approx. 300 g

ELECTRIC CONNECTIONS POWER SUPPLY

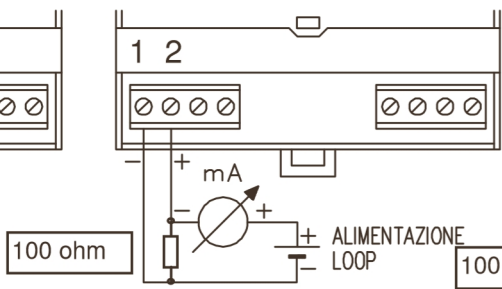


INPUT

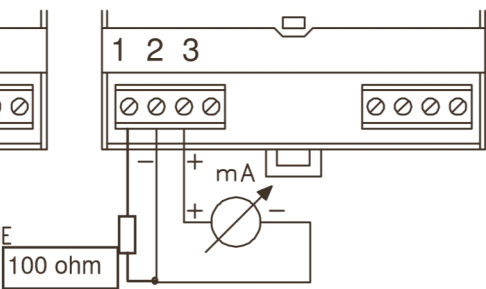
VOLTAGE



**CURRENT
PASSIVE INPUT**

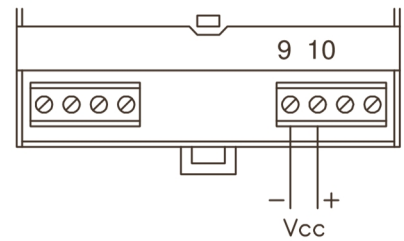


**CURRENT
ACTIVE INPUT**

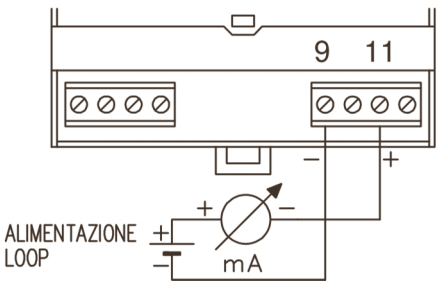


OUTPUT

VOLTAGE



**CURRENT
PASSIVE OUTPUT**



**CURRENT
ACTIVE OUTPUT**

