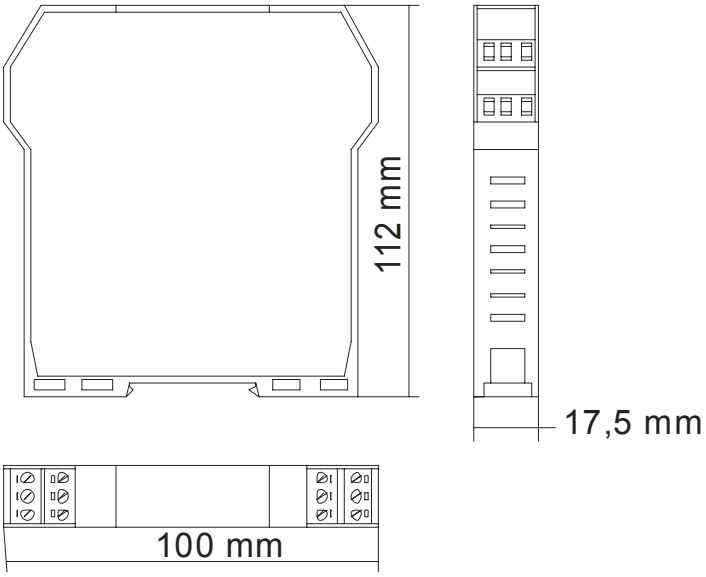
GENERAL SPECIFICATION

- Single (Z-110S) and Dual (Z-110D) channel units
- 4 – 20 mA current input
- Retransmission of input as an isolated 4 – 20 mA output
- Input/output isolation: 1500Vdc.
- Channel to channel isolation: 1500Vdc. (2 channel model Z110D only).

TECHNICAL SPECIFICATION

Power:	Self Powered from the input (primary) loop			
Input:	Current: 4 – 20 mA Minimum Volt Drop at 20mA: 7V (all loads up to 160Ω) Maximum Volt Drop at 20mA 3.8V + (Load Resistance)*0.02V			
Output:	4 – 20 mA (active), max load resistance 500 ohm			
Operating Conditions:	Temperature: 0~50°C, Humidity min:30%, max 90% @ 40°C, non condensing			
Input measurement error.	Calibration Error	Thermal Coefficient	Linearisation error:	Load variation effect
	0.1% of full scale	0.02% of full scale /°C	0.1% of full scale	0.1% of full scale
Response Time:	<100 mS to reach 90% of final value			
Input Protection:	Protected up to 35Vdc Max			
Output Protection:	Protected up to 35Vdc Max			
Standards CE	This instrument meets or exceeds the requirements of EN50081-2 (electromagnetic emissions, industrial environment) EN50082-2 (electromagnetic susceptibility, industrial environment) EN61010-1 (safety)			

DIMENSIONS



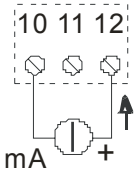
INSTALLATION

The Z110S and Z110D are designed for easy mounting on symmetrical 35mm (top hat) DIN rail (DIN 46277). As they are powered from the input loop(s) there is no requirement for external power supplies.

ELECTRICAL CONNECTIONS

Screened cable is recommended for signal connections and the screen should be connected to the instrument earth. It is good practice to separate signal cables from power cables and to avoid potential sources of interference such as electric motors, variable speed drives, microwave ovens and induction furnaces

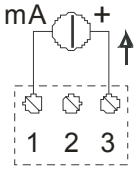
CHANNEL 1 INPUT (Z110S and Z110D)



PASSIVE INPUT: Connect the module in the current loop as shown.
The module is powered by the 4 to 20mA current loop.

Voltage Drop at 20mA: 3.8V plus Load Volt drop (0.02*load resistance), minimum 7V (e.g. with load of 250Ω Volt Drop is 3.8V + (0.02*250) = 8.80V)

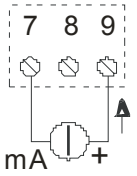
CHANNEL 1 OUTPUT (Z110S and Z110D)



ACTIVE OUTPUT: The module generates a current in the output loop identical to the current in the input loop. It is capable of driving into a maximum load of 500Ω.

<u>The output loop must NOT be powered.</u>

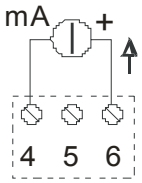
CHANNEL 2 INPUT (Z110D only)



PASSIVE INPUT: Connect the module in the current loop as shown.
The module is powered by the 4 to 20mA current loop.

Voltage Drop at 20mA: 3.8V plus Load Volt drop (0.02*load resistance), minimum 7V (e.g. with load of 250Ω Volt Drop is 3.8V + (0.02*250) = 8.80V)

CHANNEL 2 OUPUT (Z110D only)



ACTIVE OUTPUT: The module generates a current in the output loop identical to the current in the input loop. It is capable of driving into a maximum load of 500Ω.

<u>The output loop must NOT be powered.</u>

UNI EN ISO 9001 CERTIFICATE Nr. 9115.SENE

SENECAUK

This document is property of SENECAUK. Duplication and reprodution are forbidden, if not authorized. Contents of the present documentation refers to products and technologies described in it. All technical data contained in the document may be modified without prior notice Content of this documentation is subject to periodical revision.

www.SenecaUK.com Sales@senecaUK.com
Tel: 01943 602001 Fax: 01943 816796
SENECAUK
Unit 1 Golden Butts Road
LS29 8HS ilkley
West Yorkshire
United Kingdom