

Loopisolator Isolation Amplifier

Input and output galvanically isolated

Isolation voltage 3.75 kV_{ac}

Loop powered by input and output circuits

Voltage drop only 3.0 V

Transmission error < 0.1%

Very low transfer capacity



Description

The isolation amplifier in DIN housing has opto-couplers in the input and output circuits giving an effective galvanic separation.

Optimal accuracy is gained due to the feedback from output to input.

The Loopisolator has protection against over-voltage, false polarity connection and a.c. voltage on the input circuit.

The isolation amplifier can be used when galvanic separation is required between two individually powered 4...20 mA measuring circuits.

The isolation amplifier can also be used when various measuring systems, each with a different reference, are installed with a common ground connection.



Technical Data

Input data

Signal type	4...20 mA, 2-wire system
Voltage drop	Max. 3.0 V
Protection	+/- 35 V _{dc}

Output data

Signal type	4...20 mA, 2-wire system
Output	1...25 mA
Power supply	5...35 V _{dc}
Protection	+/- 35 V _{dc}
Current limiting	Nom. 26 mA
Response time	Nom. 0.3 sec. (10...90%)

Other data

Isolation voltage	3.75 kV _{ac}
Linearity error	< 0.1% f.r.
Temperature drift	Typ. 0.003% per °C Max. 0.01% per °C
Transfer capacity	Nom. 3 pF

EMC data

Immunity	EN 50082-2
Emission	EN 50081-2

Environmental conditions

Operating temperature	-10...60°C
Storage temperature	-40...85°C
Humidity	< 90% RH, non condensing
Vibrations	Lloyds Register, test 2

Mechanical data

Dimensions	62 x 88 x 24 mm
DIN-rail mounting	DIN 46277
Protection class	Housing: IP 30 Terminals: IP 10

Weight

0.1 kg

Disposal of product and packing

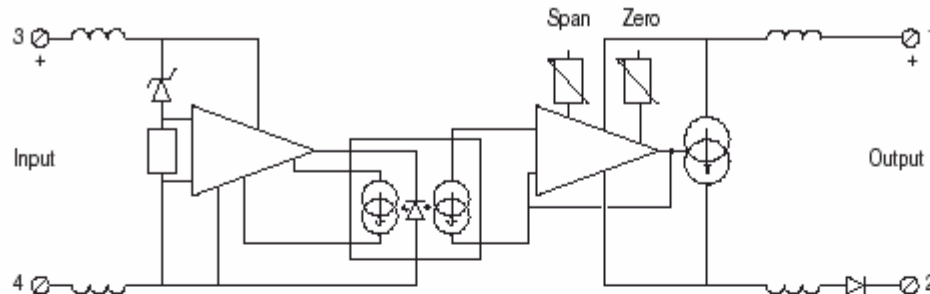
According to national laws or by returning to Bourdon-Haenni

Ordering Details - Loopsolator Isolation Amplifier

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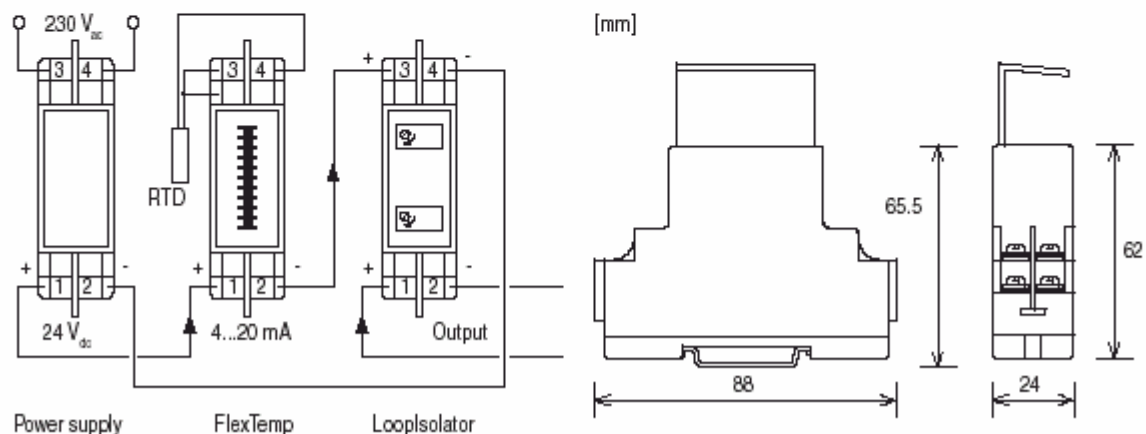
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Block Diagram



Example of Application

Dimensional Drawing



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