



## Signal Converter I/I or I/U

Input: 4...20 mA

Output: 0...20 mA or 0...10 V

Loop powered

Protected against incorrect connection

Accuracy better than 0.25% f.r.



### Description

The 4...20 mA loop current is measured and converted into 0...20 mA or 0...10 V, respectively, depending on the type of converter.

The conversion is based on internal voltage and resistance references.

The signal converter can be used to convert a 4...20 mA signal into a 0...20 mA current signal or a 0...10 V voltage signal.

To minimize a possible voltage drop the converter must be located as close to the voltage receiver as possible, whereas for current signals large lengths of cables may be used.



## Technical Data

Data Common for both Types		Signal Converter I/I	
<b>Input data</b>		<b>Input data</b>	
Protection	$\pm 24 V_{dc}$	Signal type	4...20 mA, 2-wire
Current limiting	100 mA	Voltage drop	5.5 V (excl. voltage drop across the output)
<b>Output data</b>		<b>Output data</b>	
Accuracy	< 0.25% f.r.	Signal type	0...20 mA, 2-wire
Temperature drift	Typ. 0.005% f.r. per °C Max. 0.01% f.r. per °C	Load	$\leq 400 \text{ Ohm}$
<b>Environmental conditions</b>		<b>Signal Converter I/U</b>	
Operating temperature	-10...60°C	<b>Input data</b>	
Storage temperature	-35...85°C	Input signal	4...20 mA, 2-wire
Humidity	< 90% RH, non-condensing	Voltage drop	$\leq 14 \text{ V}$
Vibrations	Lloyds Register, test 1	<b>Output data</b>	
<b>EMC data</b>		Output impedance	Nom. 2 Ohm
Immunity	EN 50082-2	Output signal	0.03...10 V
Emission	EN 50081-1	Load	> 600 Ohm
<b>Mechanical data</b>			
Dimensions	62 x 88 x 24 mm		
DIN-rail mounting	DIN 46277		
Protection class	Housing: IP 30 Terminals: IP 10		
Weight	0.1 kg		

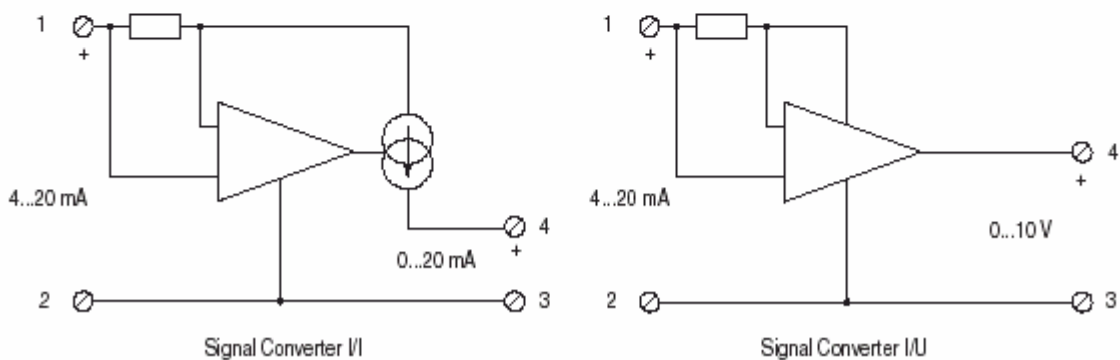
### Disposal of product and packing

According to national laws or by returning to Bourdon-Haenni

## Ordering Details - Signal Converter I/I or I/U

Input	Output	7' digit	82 42 - 31x
4...20 mA	0...20 mA		4
4...20 mA	0...10 V		5

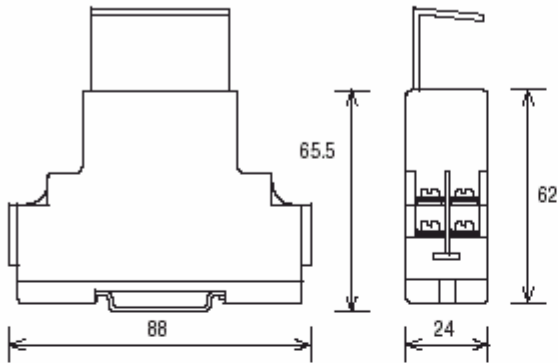
## Block Diagram





## Dimensional Drawing

[mm]



## Example of Application

