

# Isolation Converter

AD-TW 21 GVD

AD-TW 25 GVD

## Description

The passive AC current separation transducer serve the conversion of AC currents of magnitudes 0-1 A AC or 0-5 A AC in an impressed DC current of 0-20 mA. The galvanically separated output signal is, up to a maximum value, independent of the connected burden. The separation transducer does not require an auxiliary energy, the necessary energy is gained from the measuring signal.

## Application

Remote transmission of current transducer signals, galvanic separation and coupling to systems with 0-20 mA inputs.



## Specific characteristics

- for 1 A AC or 5 A AC current transducer signals
- galvanically separated output 0-20 mA
- no auxiliary energy required
- connection terminals can be pulled off

## Business data

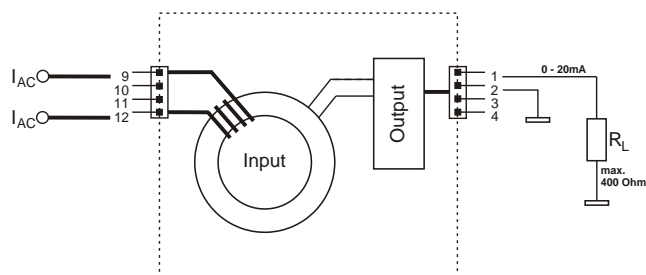
### Order number

AD-TW 21 GVD	input 0 ... 1 A AC
AD-TW 25 GVD	input 0 ... 5 A AC

## Information

### Downloads

## Block and wiring diagram



## Technical specifications

### Input current

AD-TW 21 GVD	0 ... 1 A AC (50Hz Sinus)
AD-TW 25 GVD	0 ... 5 A AC (50Hz Sinus)

### Output current

Max. output range	0 ... 20 mA
Max. burden	400 Ohm
Load influence	-0,12% / 100 Ohm

### Transmission behaviour

Basic accuracy	< 0,3 % of full scale
Temperature influence	< 30 ppm/K
Response time	< 0,5s (0 ... 90 %)

### Supply

Passive, no power supply required!	
Self-consumption via input signal	~ 1,6 VA

### Housing

Manner of fastening	DIN rail 35mm (EN 50022)
Type of protection	IP 20
Connector cross section	max. 2,5 mm <sup>2</sup>
Weight	~ 285 g

### Environmental conditions

Ambient temperature	-10 ... 50 °C
Storage and transport	-10 ... 70 °C (no condensation)

### EMC

Product family standard <sup>2)</sup>	EN 61326-1
Emitted interference	EN 55011, CISPR11 Cl. B, Gr. 1

<sup>2)</sup> During electromagnetic disturbance minor changes in output signal are possible.

### Electrical safety requirements

Product family standard	EN 61010-1
Overvoltage category	II
Pollution degree	2

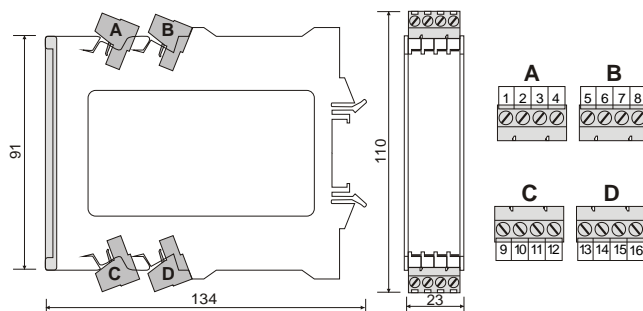
### Galvanic isolation, test voltages

Signal/auxiliary voltage	2 kV (1 min)
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### Protective systems

Input/output	over voltage and over current
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## Dimensions



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