

Passive Separation Transducer

AD-TW 501-502* GS
AD-TW 501-502* GB
AD-TW 501-508* EV

Description

The passive separation transducer AD-TW 501-508* converts an impressed current signal (0-20 mA) to a linear voltage signal (0-10 V). The output signal is galvanically separated from the input and does not have any reactive influence on the input signal. The separation transducer does not require any auxiliary energy, the low energy required for operation is won from the input signal.

Application

Economic galvanic separation with simultaneous signal conversion, without auxiliary energy. Protection of sensitive units against over voltage, galvanic decoupling in complex measuring units.

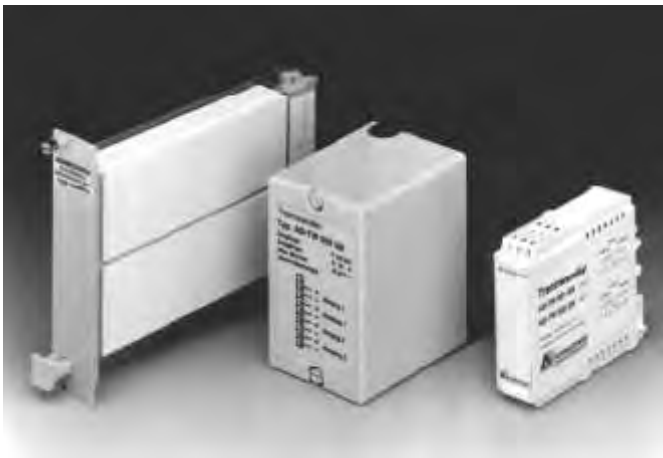
Special features

- without auxiliary energy, no mains influences
- highly linear standard signal conversion with galvanic separation
- no heat development, as it is free from auxiliary energy
- space saving, multi-channel types of construction
- connection compatible to further passive separation transducers

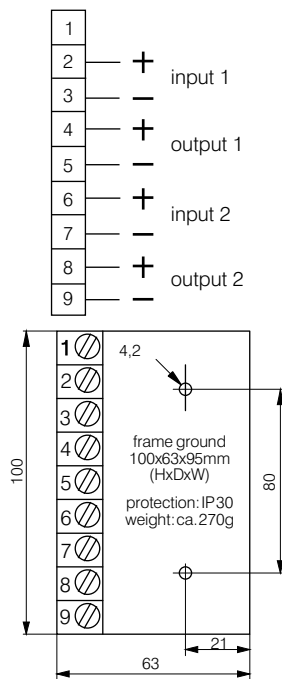
Specification

construction type	501 = 1-channel (housing GS, GB, EV) 502 = 2-channel (housing GS, GB, EV) 503 = 3-channel (housing EV)
input	impressed current signal 0...20 mA
converter voltage drop approx.	1,7 V
response current	approx. 80 μ A
output	0...10 V
minimum load	50 kohm
linearity error	< 0,3%
reaction time	10...90% = < 40 ms 90...10% = < 20 ms
insulation test voltage input/output	1,5 kV RMS
temperature drift	approx. 15 ppm/ $^{\circ}$ C
ambient temperature	0 to +50 $^{\circ}$ C
protection	input, output against over-voltage, polarity reversal and to output short-circuit proof
CE-conformity	EN 50081-2, EN 50082-2

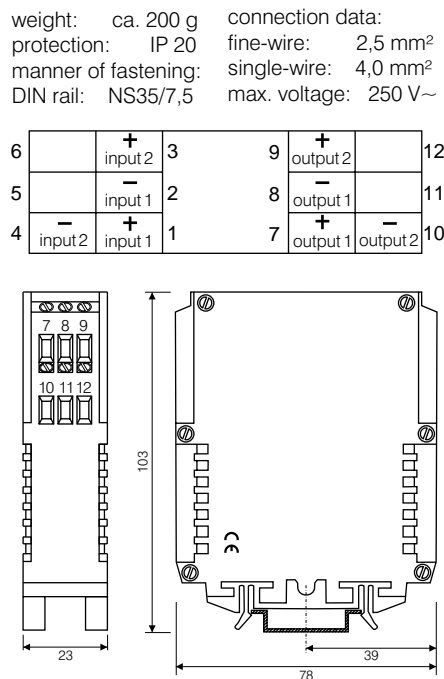
(*) = last digit marks the number of channels



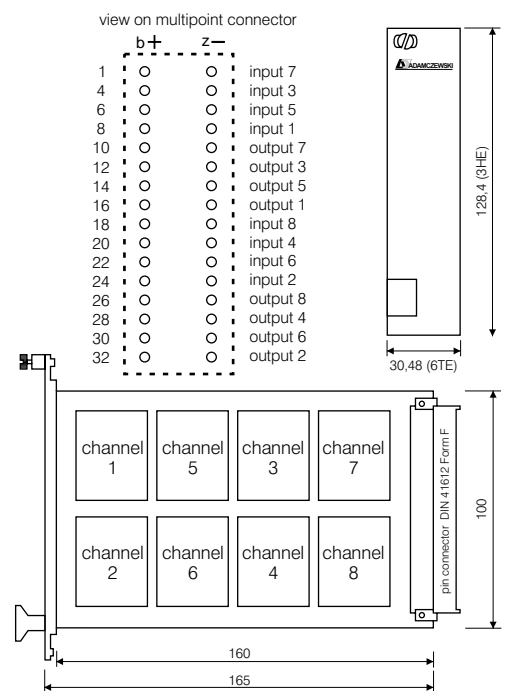
Connections and dimensions:
AD-TW 501-502 GB



Connections and dimensions:
AD-TW 501-502 GS



Connections and dimensions:
AD-TW 501-508 EV



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