

Isolation Amplifier

AD-TV 22 GL

Description

The separation amplifier AD-TV 22 GL serves the galvanic separation and amplification of DC-current signals (0/4-20 mA). The output signal follows linear the input dimension and is independent of the connected burden up to a limiting value. Input, output and supply voltage are galvanically separate from each other with high insulation. An integral electronic power pack with a high degree of effectiveness prevents strong heating and allows high output loads. A high packing density is achieved in combination with a narrow type of construction.

Application

Burden amplification and galvanic decoupling of active DC-current signals in a cost-effective build-up.



Specific characteristics

- Supply buffer amplifier for 3-way separation of 0/4-20 mA signals (output follows input 1:1)
- 18 mm narrow housing

Business data

Order number AD-TV 22 GL

Technical specifications

Input current	
Measuring range	0 ... 20 mA; 4 ... 20 mA
Input resistance	50 Ohm
Output current	
Output range	0 ... 20 mA; 4 ... 20 mA
Max. burden	1:1 to the input signal
Residual ripple	400 Ohm
<25 µAss	
Transmission behaviour	
Basic accuracy	< 0,2 %
Temperature influence	< 100 ppm/K
Supply	
Supply voltage	20 ... 253 V DC / 50 ... 253 V AC
Nominal voltage	24 V DC / 230 V AC
Power consumption	0,9 W / 2 VA
Housing	
Dimensions (WxHxD)	18x81x103mm
Type of protection	IP 20
Connection method	Schraubklemmen
Terminals, wire cross section	2,5 mm² flex wire / 4 mm² one wire
Bolting torque terminals	0,5 Nm
Manner of fastening	DIN rail 35mm (EN 50022)
Weight	ca. 100 g
Environmental conditions	
Ambient temperature	0 ... 50 °C
Storage and transport	-10 ... 70 °C (no condensation)
EMC	
Product family standard	EN 61326-1 ¹⁾
Emitted interference	EN 55011, CISPR11 Cl. B
<small>¹⁾During electromagnetic disturbance minor changes in output signal are possible.</small>	
Electrical safety requirements	
Product family standard	EN 61010-1
Oversupply category	II
Pollution degree	2
Functional safety	
Safety integrity level	SIL 2 (IEC 61508)
Galvanic isolation, test voltages	
Input/output	3,75 kV RMS (1 min.)
Signal/auxiliary voltage	3 kV RMS (1 min.)
Protective systems	
Input/output	electrical surge protection
Power supply	electrical surge and reverse current protection



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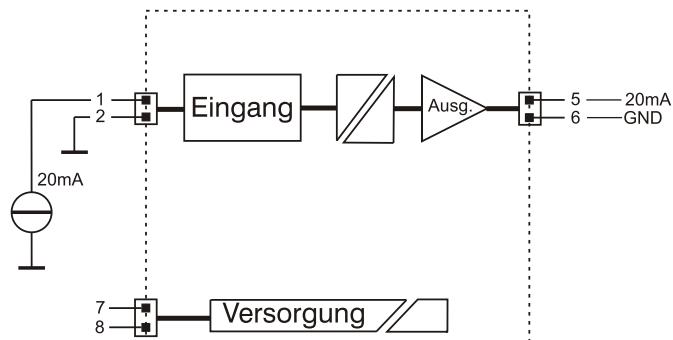
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Block and wiring diagram



Dimensions

