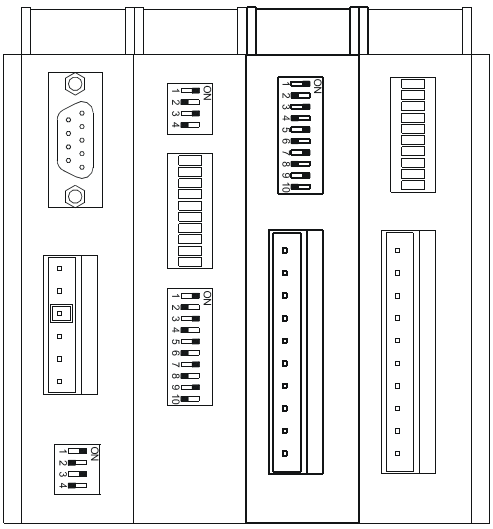
AD-AI5

5 analogue inputs 5 V / 10 V / 0 to 20 mA / 0 to 40 mA

- **5 analogue inputs with internal jumpers for individual configuration**
- **Input measuring ranges 0 to 5 V, 0 to 10 V, 0 to 20 mA, 0 to 40 mA**
- **10 bits converter to AD-CPU167**
- **Output 24 V DC for sensors power supplying, 5 V DC external reference**
- **Overvoltage protection**
- **Self-stacking connection to the AD-CPU167 unit, DIN rail mounting**



TECHNICAL DATA

Number of inputs	5 with common analogue ground
Galvanic separation	No
A/D converter resolution	10 bits
Input time constant	20 ms
Input ranges voltage/1 bit resolution current/1 bit resolution	Individually adjustable 0 to 5 V / 4.88 mV 0 to 10 V / 9.77 mV 0 to 20 mA / 19.53 µA 0 to 40 mA / 39.06 µA
Accuracy of amplification and conversion	0.1 %
Max. power consumption from 5 V DC reference source	5 mA
Max. number of modules in configuration	2
Module position in system	1. and 2. position in configuration behind the AD-CPU
Max. internal source consumption (24 V DC)	1 mA
Input signal connection	WAGO 231 cage clamp connectors, code protection against mistaking
Mounting	35 mm DIN rail
Operating temperature	0 to 70 °C
Max. ambient humidity	< 95 % non-condensing
Weight	200 g
Dimensions (w × h × d)	25 × 104 × 96 mm

ORDERING INFORMATION

AD-AI5	5 analogue outputs module 0 to 5 V, 0 to 10 V, 0 to 20 mA, 0 to 40 mA, WAGO231-310 connector, data sheet, warranty card

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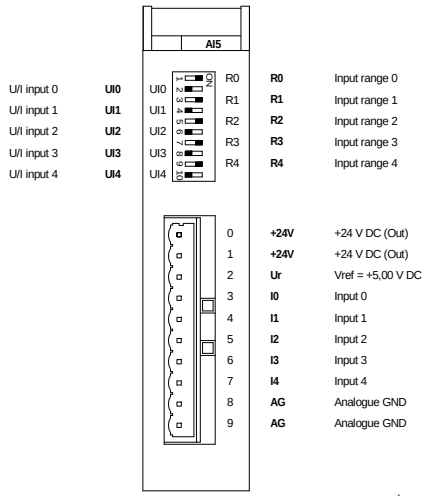
MODULE DESCRIPTION AND SIGNAL ASSIGNMENT



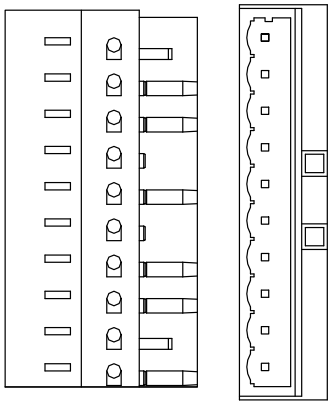
DIP SWITCH DESCRIPTION

Switch	Feature	ON	OFF
UI0, UI1, UI2, UI3, UI4	U/I	current	voltage
R0, R1, R2, R3, R4	range	U: 0 to 10 V I: 0 to 40 mA	U: 0 to 5 V I: 0 to 20 mA

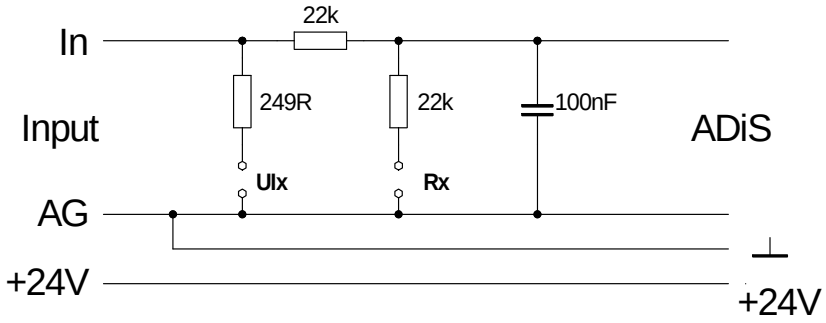
Note: The **24V** terminals can only be used for power supplying of current sensors with total maximum consumption of 150 mA.

The **AG** terminals are internally connected with ⊥ (the ground terminal) at the AD-CPU167 power supply connector (see the input circuit wiring diagram).

CONNECTOR CODING



INPUT CIRCUIT WIRING



WIRING EXAMPLES