8BAC0132.000-1

1 General information

The Analog In plug-in module 8BAC0132.000-1 can be used in an ACOPOSmulti slot. Four analog inputs are available (±10 V differential inputs).

The analog inputs have a resolution of 14 bits and are scanned synchronously using the 50 µs clock for the ACOPOSmulti inverter or power supply module. The analog inputs have an analog input filter with 30 kHz cutoff frequency (third-order low-pass filter).

2 Order data

Model number	Short description	Figure
	Plug-in modules	
8BAC0132.000-1	ACOPOSmulti plug-in module, 4 analog inputs ±10 V	
	Required accessories	
	Terminal blocks	
8TB1110.20B-00	Screw clamp terminal block 10-pin, single-row, pitch: 3.5 mm, numbered consecutively, coding B: 0011111100	
8TB1110.21B-00	Cage clamp terminal block 10-pin, single-row, pitch: 3.5 mm, coding B: 0011111100	

Table 1: 8BAC0132.000-1 - Order data

3 Technical data

Model number	8BAC0132.000-1
General information	
Module type	ACOPOSmulti plug-in module
B&R ID code	0xA5CB
Slot	Slots 1 and 2
Max. power consumption	1.2 W
Certifications	
CE	Yes
KC	Yes
UL	cULus E225616 Power conversion equipment
Module connection	
Module-side connection	10-pin multipoint connector
Status indicators	UP LED (module OK) and DN LED (module NOT OK)
Analog inputs	
Quantity	4
Digital converter resolution	14-bit
Conversion time	<10 µs
Design	Differential input
Electrical isolation	
Input - ACOPOSmulti	Yes
Input - Input	No
Input signal	
Nominal	-10 to +10 V
Maximum	-15 to +15 V
Operating modes	Cyclic measurement synchronous to 50 µs clock
Conversion procedure	Successive approximation
Input filter	Analog third-order low-pass filter / cutoff frequency: 30 kHz

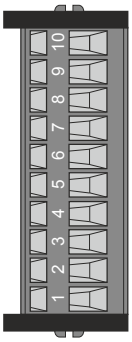
Table 2: 8BAC0132.000-1 - Technical data

Model number	8BAC0132.000-1
Common-mode rejection	
DC	80 dB
50 Hz	80 dB
Nonlinearity	±1 LSB
Differential input impedance	>10 MΩ
Environmental conditions	
Temperature	
Operation	
Nominal	5 to 40°C
Maximum	55°C
Storage	-25 to 55°C
Transport	-25 to 70°C
Relative humidity	
Operation	5 to 85%
Storage	5 to 95%
Transport	Max. 95% at 40°C

Table 2: 8BAC0132.000-1 - Technical data

4 Wiring

4.1 Pinout

Figure	X11	Pin	Description	Function
		1	Analog I 1 +	Analog input 1 plus
		2	Analog I 1 -	Analog input 1 minus
		3	Shield (1, 2, 4, 5)	Shield connection
		4	Analog I 2 +	Analog input 2 plus
		5	Analog I 2 -	Analog input 2 minus
		6	Analog I 3 +	Analog input 3 plus
		7	Analog I 3 -	Analog input 3 minus
		8	Shield (6, 7, 9, 10)	Shield connection
		9	Analog I 4 +	Analog input 4 plus
		10	Analog I 4 -	Analog input 4 minus

Terminal cross section	[mm²]	[AWG]
Solid core / Multiple-conductor lines	0.2 - 1.5	28 - 14
Flexible, multiple wire line		
Without wire end sleeves	0.2 - 1.5	28 - 14
With wire end sleeves	0.2 - 1.5	28 - 14
Approbation data		
UL/C-UL-US	---	28 - 14
CSA	---	28 - 14
Tightening torque for the terminal screws [Nm]	0.2 to 0.25	

Table 3: Analog interface 8BAC0132.000-1 - Pinout

4.2 Input/Output circuit diagram

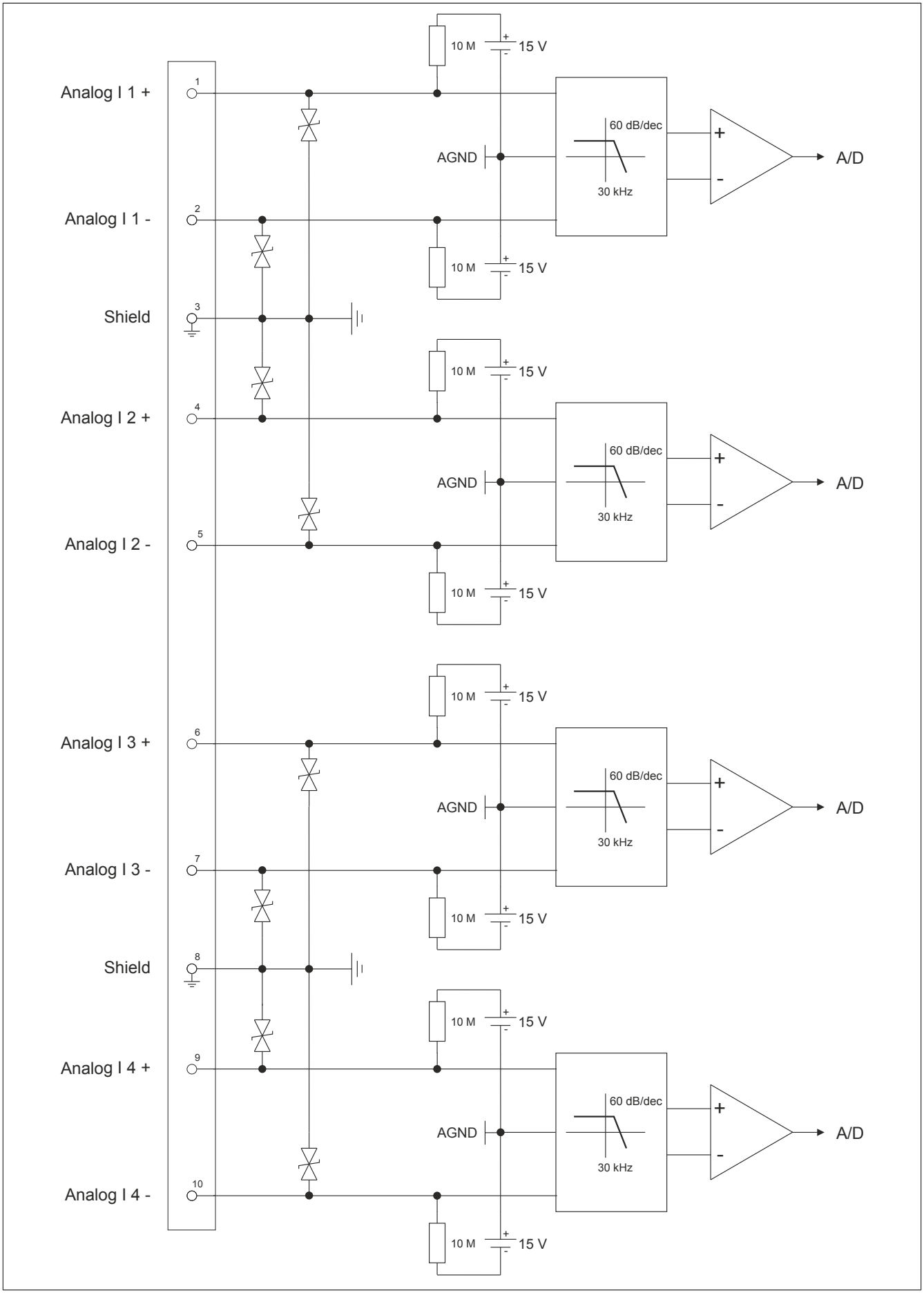


Figure 1: Input/output circuit diagram - Analog interface 8BAC0132.000-1

5 Status indicators

The indicators (LEDs UP/DN) are located on the front of the ACOPOSmulti drive or power supply module where the plug-in module is installed.

The UP/DN LEDs light up according to the module state.

UP-LED ... lit, if the module is functioning properly (green).
DN-LED ... lit, if the module is not (yet) functioning properly (red).

6 Firmware

The firmware is part of the operating system for the ACOPOSmulti drive system. Firmware is updated by updating the ACOPOSmulti operating system.