AS-i 3.0 Universal Module in IP65

Bihl + Wiedemann

Analog and digital inputs/outputs in one module

Mixed input/output slave
- **2 analog inputs 4 ... 20 mA**
- **1 binary output**
- **1 pulse input**
- **1 status input**

Protection category IP65

Article no. BWU1931: Analog and digital inputs/outputs in one module

The analog module has 2 analog inputs 4 ... 20 mA, 1 binary output, 1 pulse input and 1 status input.

The conversion of the measured value and the data transmission via AS-i occurs according to AS-i Profile 7.5.5. Inputs are completely galvanically isolated. The ground of the binary output is connected to 0 V

ext. Analog sensors can be connected via cage clamp terminals. The sensor-interfaces are supplied by external voltage (according to PELV) via the black ribbon cable, 1 A max. The external 24 V supply voltage must be connected. The resolution of the analog data is 16 bit.

Article no.	BWU1931
Analog inputs	2 inputs 4 ... 20 mA/ 50 W
Binary outputs	1 output 24 V/ 0,5 A
Digital inputs	1 pulse input 0 ... 1kHz, treshold value 13 V
	1 status input 0 ... 10 Hz, treshold value 13 V
Resolution	16 bit
Max. current per analog input	40 mA
Range of value	40 mA
Transformation speed	120 ms for analog inputs
AS-i Profile	7.5.5
ID code	5
ID1 code	F
ID2 code	5
IO code	7
Displays	
LED green (analog 1)	analog signal 1
LED green (analog 2)	analog signal 2
LED green (binary output)	binary signal
LED green (pulse input)	pulse signal
LED green (status input)	status signal
LED green (Pwr)	AS-i voltage
LED red (Fault)	AS-i communication error, peripheral fault
LED green (Aux)	ext. power on (mandatory)
Operating current	< 80 mA
Operating voltage	30 V (20 … 31.6 V)
Voltage of insulation	≥ 500 V
EMC directions	EN 61 000-6-2
	EN 61 000-6-4
Ambient operating temperature	0°C … +70°C
Storage temperature	-25°C … +85°C
Pollution degree	2
Housing	housing for DIN-rail mounting
Dimensions (L / W / H in mm)	90 / 80 / 70
Protection category (EN 60529)	housing IP65
Tolerable loading referring to humidity	according to EN 61131-2

Programming:
(Bit-settings of AS-i parameters)

Bit P0:
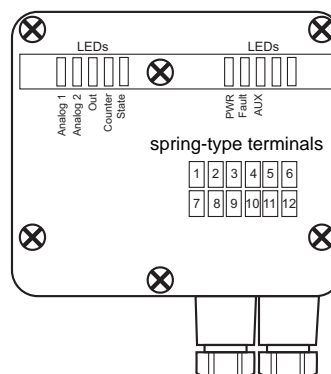1: counter in operation
0: counter set to "0"
Bit P1:
1: upward counting
0: downward counting
Bit P2:
1:Peripheral fault is indicated
0:Peripheral fault is *not* indicated
Bit P3:
1:scaling (analog values) 4000 … 20000 dec.
0:scaling (analog values) 0 ... 27648 dec.
(Siemens format)

Bit	Function
D0	input status / output 1
D1	input pulse / n.a.
D2	n.a. / n.a.
D3	n.a. / n.a

Bit	Function
A0	input 1
A1	input 2
A2	pulse count
A3	n.a.

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Connections:

1	24 V ext.	7	0 V ext.
2	Sig. + Ch 1	8	Sig. - Ch 1
3	Sig. + Ch 2	9	Sig. - Ch 2
4	Sig. + Pulse	10	Sig. - Pulse
5	Sig. + Status	11	Sig. - Status
6	Sig. + Out	12	0 V Out

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