

1-Channel Input

Profile 7.3 "Plug and Play", as simple as digital AS-i I/O

High protection category IP65



Article no. BWU1723: AS-i Counter Module

The AS-i Counter Module has 1 input for standard sensors.

The module counts the impulses or frequency up- and downwards with the 1 channel and outputs the result as a 16 bit value (-32 768 ... 32 767) via AS-i. The start value is -32 768.

With the help of parameters the module can be set to start value as well as the counting direction can be defined.

With parameter P2 the user can choose between counting impulses or frequency measurement.

As long as the AS-i parameter P0=0 is set the counting is stopped.

The module reports a peripheral fault at counter overflow (underflow) or when status input is going invalid (low).

Article no	BWU1723
General Data	
Device type	input
Connection	
AS-i / AUX connection	profile cable and piercing
Periphery connection	M12
AS-i	
Profile	S-7.3.C
Address	1 single slave
Required master profile	≥ M3
As of AS-i specification	3.0
Operating voltage	30 V _{DC} (18 ... 31,6 V)
Max. current consumption	< 200 mA
AUX	
Operating voltage	24 V _{DC} (18 ... 30 V)
Max. current consumption	700 mA
Input	
Number	1
Counting rate	max. 4 kHz
Range of value	-32768 ... 32767 dec. (start value: -32768)
Power supply	out of external 24 V
Power supply of attached sensors	max. 700 mA out of external 24 V
Display	
LED In (yellow)	state of channel 1
LED PWR (green)	on: AS-i voltage o.k.
LED FAULT (red)	AS-i communication error, peripheral fault

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Environment	
Applied standards	EN 50081-2 EN 61000-6-2
Operating temperature	0°C ... +70°C
Storage temperature	-25°C ... +85°C
Housing	plastic, for DIN rail mounting
Protection category (EN 60529)	IP65
Voltage of insulation	≥ 500 V
Weight	210 g
Dimensions (W / H / D) in mm	90 / 80 / 43

Programming (Bit-setting of AS-i parameters)

Bit	P0: Operation (at P2=0)	P1: Gate time	P2: Mode	P3: Counting direction
0	set to start value (-32768)	8 s gate time for frequency	impulse	count downwards
1	normal operation	1 s gate time for frequency	frequency	count upwards

Connections

Article no.	M12 connection	Marking	Pin1	Pin2	Pin3	Pin4	Pin5
BWU1723	X1			not used			
	X2			not used			
	X3	In (connection counter)	24 V _{ext.}	channel 1 +, pulse/freq. input	0 V _{ext.}	state of input	n.c.
	X4			not used			

Accessories:

- AS-i substructure module to connect 1 AS-i flat cable, 1 flat cable for additional supply (art. no. BW1181)
- AS-i substructure module to 1 AS-i round cable, 1 round cable for additional supply (art. no. BW1183)