

2-/2 x 2 channel input

A/B Inputs

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

High protection category IP65



Article no. BWU1574: 2-channel input

Article no. BWU1710: 2 x 2-channel input

The AS-i Counter Module has inputs for standard sensors (24 V, pnp, push-pull). The module counts the impulses up- and downwards with the two channels (BWU1574) or 2 x 2-channel input (BWU1710) and outputs the result as 16 bit value (-32768 ... 32767) via AS-i. The start value is -30768.

With the help of parameters the module can be set to zero as well as the counting direction can be defined. Different pre-divisors are available, which can be select via AS-i parameters as well.

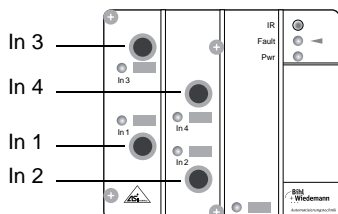
As long as the AS-i parameter for setting zero is set the counting is stopped. After the setting to zero of the counting value a pre-divisor or the AS-i parameter for no pre-divisor must be adjusted again.

The module reports a peripheral fault at counter overflow (underflow).

Article no.	BWU1574	BWU1710
Inputs	1 M12 input (2 channels)	2 M12 inputs (2 x 2 channels)
Voltage supply, sensors	via AS-i	
Range of value	-32768 ... 32767 dec. (start value: -30768)	
Counting rate	max. 20 kHz	
Power supply sensor	max: 150 mA	
AS-i profile	7.3	
ID code	3 _{hex}	
ID2 code	C _{hex}	D _{hex}
IO code	7 _{hex}	
Displays		
LEDs green (Ch 1 - 4)	state of input 1	state of inputs 1 and 2
LED green (PWR)	AS-i voltage	
LED red (FAULT)	AS-i communication error, peripheral fault	
Operating current	< 200 mA	
Operating voltage	AS-i (30 V _{DC})	
Voltage of insulation	≥ 500 V	
EMC	according EN 61 000-6-2 EN 61 000-6-4	
Ambient operating temperature	0°C ... +70°C	
Storage temperature	-25°C ... +85°C	
Housing	housing for DIN-rail mounting	
Dimensions (L / W / H in mm)	90 / 80 / 43	
Protection category (DIN 40 050)	housing IP65	

Connections

	BWU1574	BWU1710
In 1	✓	✓
In 2	–	✓
In 3	–	–
In 4	–	–



Programming (Bit-setting of AS-i parameters)

Bit P2	Bit P1	Bit P0	BWU1574	BWU1710
0	0	0	set zero Ch1	
0	0	1	pre-divisor = 64	
0	1	0	pre-divisor = 32	
0	1	1	pre-divisor = 16	set zero Ch2
1	0	0	pre-divisor = 8	
1	0	1	pre-divisor = 4	
1	1	0	pre-divisor = 2	
1	1	1	no pre-divisor	

Bit P3	BWU1574+1710
1	count upwards
0	count downwards

M12 Connections		
1	24 V out of AS-i	
2	channel A	
3	0 V out of AS-i	
4	channel B	
5	n.c.	

Start value:

At power-up, all the counter with 0x7830 (-30768) are initialized to indicate that there is no zero-setting.