ASi/ASi Coupler in IP20

Bihl + Wiedemann

**Connection of 2 ASi Networks
via 2 internal 4I/4O Modules**

**Easy data exchange
between 2 ASi Networks via
the internal 2 ASi Modules**

(figure similar)

Article no. BW1187

The ASi/ASi Coupler provides the easiest solution to exchange data between two PLCs via ASi.

In big applications with more than one ASi network there is often a need to exchange data between two ASi networks, e. g. to report the process status. This problem was solved in the past with the help of 2 normal ASi 4I/4O Modules, with the inputs of one ASi module connected to the outputs of the other ASi module. With the use of the ASi/ASi Coupler to solve this problem the installation costs as well as the components costs can be reduced.

The ASi/ASi Coupler consists of two 4I/4O ASi modules in one housing. The outputs of one ASi module are connected to re-spective inputs of the other ASi module and vice versa (ASi output data bit 0 of the first ASi module with ASi input data bit 0 of the second ASi module and vice versa, etc.).
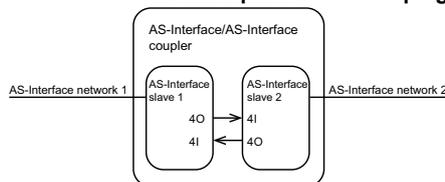
There is a galvanic isolation between both ASi networks.

Each ASi module has got 6 LEDs, 4 LEDs for the 4 outputs, one power LED and 1 LED for ASi faults. Furthermore each ASi module has got an address socket.

As long as one of both ASi modules does not exchange data the other ASi module reads on each input a 0 as default.

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Interfaces	AS-i circuit 1 and 2
IO-Code (ASi module 1 and 2)	7_{hex}
ID-Code (ASi module 1 and 2)	F_{hex}
ID1-Code (ASi module 1 and 2)	F_{hex}
ID2-Code (ASi module 1 and 2)	E_{hex}
LEDs for ASi module 1 and 2	
LED power (green)	ASi voltage ON
1x LED FAULT (red)	ASi communication error, peripheral fault
4x LEDs (yellow)	output 1 up to output 4
2x address socket (ADDR)	for ASi module 1 and ASi module 2
Operating current	< 80 mA per ASi module
Operating voltage	30 V (18 … 31.6 V)
Voltage of insulation	≥ 500 V
Applied standards	EN 61000-6-1, EN 61000-6-3
Ambient operating temperature	0 °C … +55 °C
Storage temperature	-25 °C … +85 °C
Pollution degree	2
Housing	plastic, housing for DIN-rail mounting
Dimensions (W, H, D)	22,5 mm, 99 mm, 92 mm
Protection category (DIN 60529)	IP20
Tolerable loading referring to humidity	according to EN 61131-2

ASi connections via 4-pin COMBICON plug:

1	ASi2-
2	ASi2+
3	ASi1-
4	ASi1+
5	n.c.
6	n.c.
7	n.c.
8	n.c.
9	ASi2+
10	ASi2-
11	ASi1+
12	ASi1-
13	ASi2+
14	ASi2-
15	n.c.
16	n.c.

Accesories:
• **ASi-5/ASi-3 Address Programming Device (art. no. BW4708)**

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