

## Connection of 2 AS-i Networks via 2 internal 4I/4O Slaves

Easy data exchange  
between 2 AS-i Networks via  
the internal 2 AS-i Slaves



(figure similar)

### Article no. BW1187

The AS-i/AS-i Coupler provides the easiest solution to exchange data between two PLCs via AS-i.

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

The AS-i/AS-i Coupler consists of two 4I/4O Slaves in one housing. The outputs of one slave are connected to respective inputs

of the other slave and vice versa (AS-i output data bit 0 of the first slave with AS-i input data bit 0 of the second slave and vice versa, etc.).

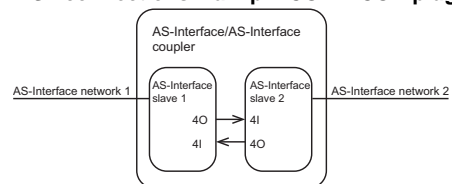
There is a galvanic isolation between both AS-i networks.

Each AS-i slave has got 6 LEDs, 4 LEDs for the 4 outputs, one power LED and 1 LED for AS-i faults. Furthermore each slave has got an address socket.

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

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Interfaces	AS-i circuit 1 and 2
IO-Code (slave 1 and 2)	7 <sub>hex</sub>
ID-Code (slave 1 and 2)	F <sub>hex</sub>
ID1-Code (slave 1 and 2)	F <sub>hex</sub>
ID2-Code (slave 1 and 2)	E <sub>hex</sub>
LEDs for slave 1 and 2	
LED power (green)	AS-i voltage ON
1x LED FAULT (red)	AS-i communication error, peripheral fault
4x LEDs (yellow)	output 1 up to output 4
2x address socket (ADDR)	for slave 1 and slave 2
Operating current	< 80 mA per slave
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

### AS-i connections via 4-pin COMBICON plug:



1	AS-i2-
2	AS-i2+
3	AS-i1-
4	AS-i1+
5	n.c.
6	n.c.
7	n.c.
8	n.c.
9	AS-i2+
10	AS-i2-
11	AS-i1+
12	AS-i1-
13	AS-i2+
14	AS-i2-
15	n.c.
16	n.c.