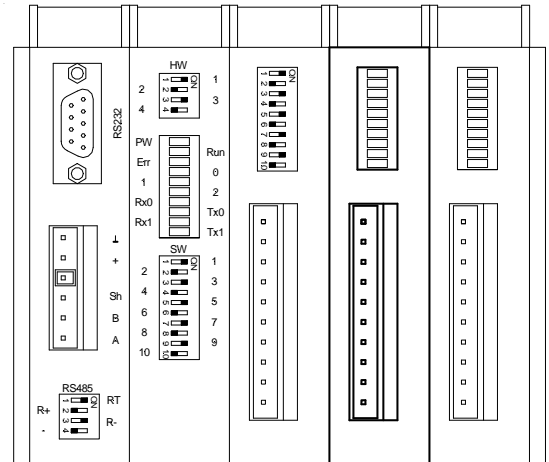


AD-FDI8

8 fast digital 5 to 24 V DC inputs

- 8 fast galvanically separated inputs 5 to 24 V DC
- Inputs are configured in groups per for
- An interrupt can be invoke by input signal change
- Common GND terminal for all signals
- Input state indication by green LED
- Self-stacking connection to the AD-CPU167 unit, DIN rail mounting



TECHNICAL DATA

Number of inputs	8
Common lead	GND
Galvanic separation	Yes *)
Input voltage – range 5 V DC Log. 0 max. Log. 1 min. Log. 1 typically	1 V DC 3 V DC 5 V DC
Input voltage – range 24 V DC Log. 0 max. Log. 1 min. Log. 1 typically	5 V DC 16 V DC 24 V DC
Max. input voltage (1 s)	50 V DC
Oversvoltage protection	600 W / 1 ms
Input current	14 mA at 24 V DC
Max. input frequency (push/pull excitation)	400 kHz
Module position in system	1. and 2. position **)
Max. number of modules	2 ***)
Max. internal source consumption (5 V DC)	230 mA
Signal connection	WAGO 231 cage clamp connectors, code protection against mistaking
Mounting	35 mm DIN rail
Operating temperature	0 to 70 °C
Max. ambient humidity	< 95 % non-condensing
Weight	200 g
Dimensions (w x h x d)	25 x 104 x 96 mm

*) Insulation strength 500 V AC / 1 minute, galvanic insulation may not be used for safe and unsafe parts separation.

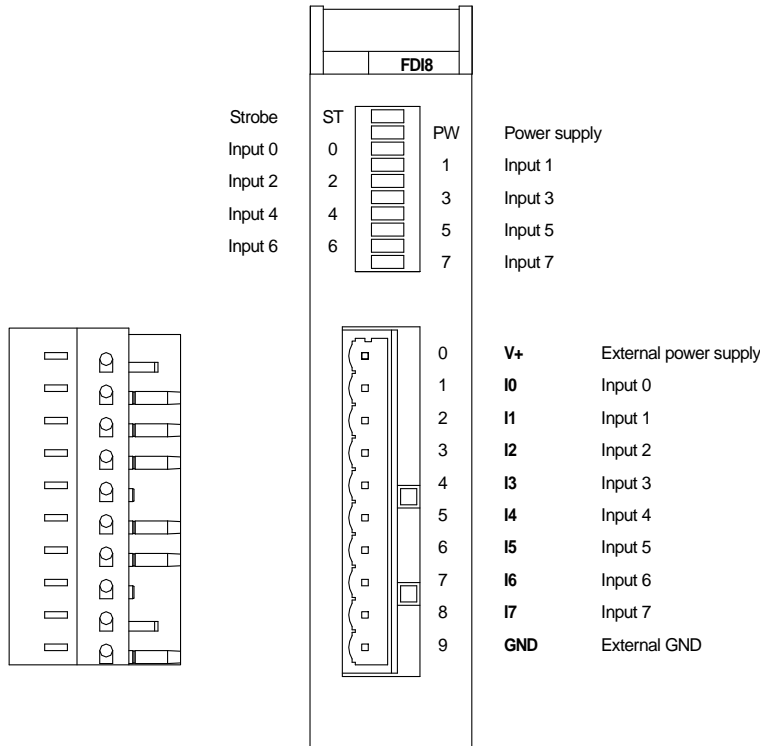
***) Should be installed immediately after AD-AI5, AD-AI8 or AD-NI5 modules if they are used.

***) If more modules are used only the first two can generated interrupts!

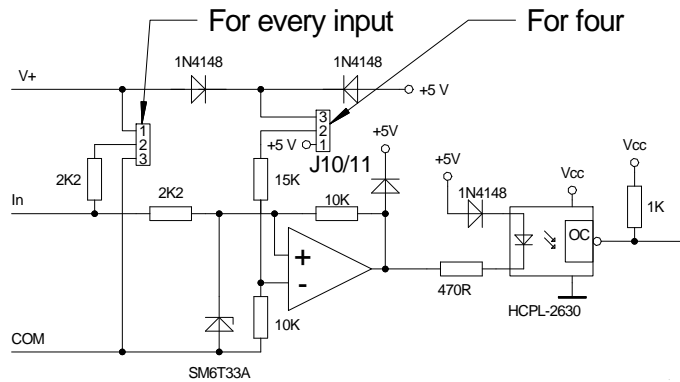
ORDERING INFORMATION

AD-FDI8	8 digital inputs 5/24 V DC module, WAGO231-310 connector, data sheet, warranty card
---------	---

MODULE DESCRIPTION AND SIGNAL ASSIGNMENT



INPUT CIRCUIT WIRING



The module input range is set to +5V or V+ (from the input) always for all four input in group. One group could be configured for range +5V (internal power supply) and second group for V+ (external power supply). A 2K2 resistor could be connected to the COM or V+ terminal (for each input individually).

Inputs	Jumpers	+5V	V+
0 .. 3	J10	1-2	2-3
4 .. 7	J11	1-2	2-3

Jumpers J10, J11

V+

+5V

2K2 resistor connection

COM

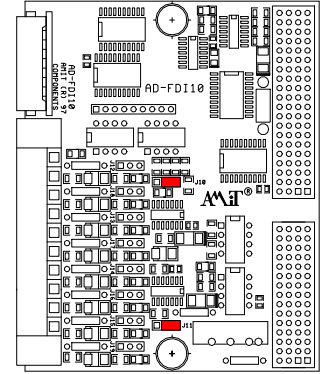
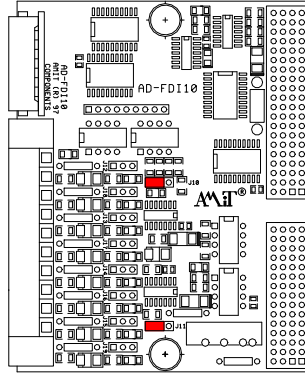
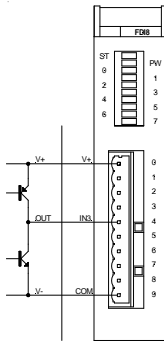
V+

AD-FDI8

8 fast digital 5 to 24 V DC inputs

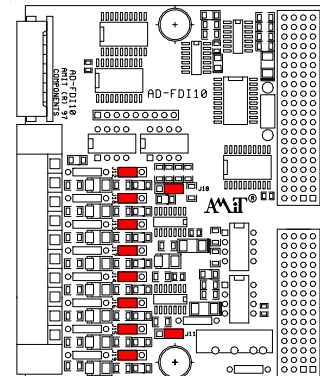
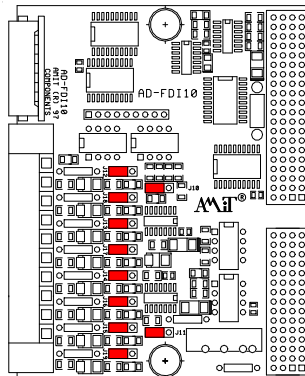
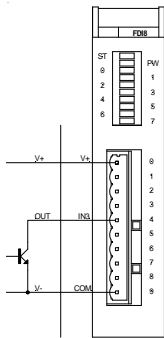
MODULE WIRING EXAMPLE

PUSH-PULL output stage

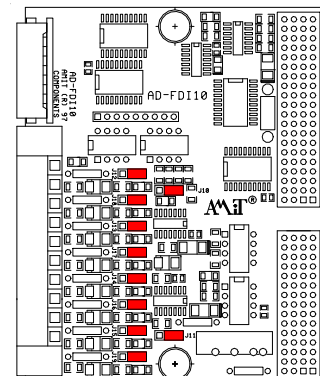
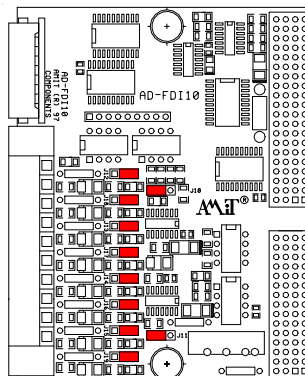
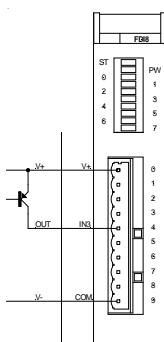


The V+ lead is not needed

Open collector NPN output stage



Open collector PNP output stage



The V+ lead is not needed