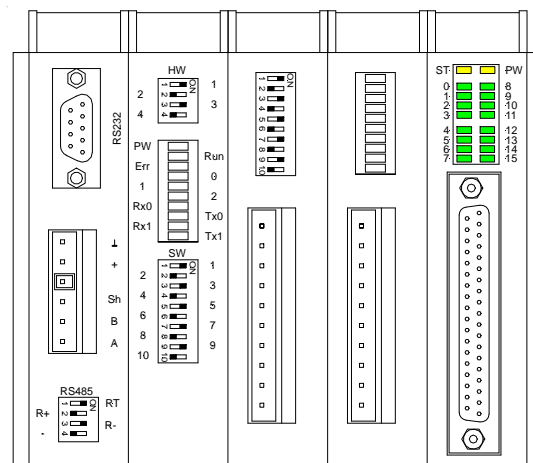


AD-DI16A

16 digital inputs 24 V AC/DC

- 16 galvanically separated inputs 24 V AC/DC
- Common GND terminal for all module signals
- Input state indication by green LED
- Digital inputs could be used for either AC or DC signal, evaluation depends on application
- Self-stacking connection to the AD-CPU167 unit, 35 mm DIN rail mounting
- Optional accessories – AD-S16 terminal block + cable



TECHNICAL DATA

Inputs	16
Common lead	Vx-
Galvanic separation	Yes *)
Input voltage	Logical 0 min. -30 V, max. 5 V Logical 1 min. 16 V, max. 30 V
Max. input voltage (1 s)	50 V
Input current at 24 V	6 mA
Transmission delay	Log. 0 → Log. 1 max. 100 μs Log. 1 → Log. 0 max. 70 μs
Power supply	Internal
Max. internal source consumption	20 mA at 24 V DC
Others	
Max. number of modules	16
Module position in system	No limitation
Signal connection	CANON 37 connector, male
Cover protection rate	IP20
AD-DI16A operating temperature	0 to 70 °C
AD-DI16A/I operating temperature	-40 to 70 °C
Max. ambient humidity	< 95 % non-condensing
Mounting	35 mm DIN rail
Weight	200 g
Dimensions (w x h x d)	25 x 104 x 96 mm

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

ORDERING INFORMATION

AD-DI16A	16 digital inputs 24 V AC/DC module, data sheet, warranty card
AD-DI16A/I	16 digital inputs 24 V AC/DC module with temperature range -40 to 70 °C, data sheet, warranty card
AD-S16	Terminal block module with WAGO connectors
AD-K37A-xxx	AD-DI16A – AD-S16 connecting cable, (xxx = 50, 100 or 150 cm)

SIGNAL ASSIGNMENT ON THE CANON CONNECTOR

PIN	Label
1	Vx-
3	Vx+ *)
5	Vx+ *)
7	Vx+ *)
9	Vx+ *)
11	Vx+ *)
13	Vx+ *)
15	Vx+ *)
17	Vx+ *)
19	Vx-
21	DI15
23	DI13
25	DI11
27	DI9
29	DI7
31	DI5
33	DI3
35	DI1
37	Vx-

PIN	Label
2	Vx-
4	Vx+ *)
6	Vx+ *)
8	Vx+ *)
10	Vx+ *)
12	Vx+ *)
14	Vx+ *)
16	Vx+ *)
18	Vx-
20	Vx-
22	DI14
24	DI12
26	DI10
28	DI8
30	DI6
32	DI4
34	DI2
36	DI0

Note: *) This signal has no assignment on AD-DI16A module and could be connected to signal Vx-.

AD-S16 TERMINAL BLOCK

AD-S16 terminal block is used for distributing of single signal from the module. This terminal block module is for DIN rail mounting as ADiS system.

SIGNAL ASSIGNMENT ON AD-S16 TERMINAL BLOCK

Label	Group A	Group B	Group C	Group D
1	Vx+	Com 1	Vx+	Com 2
2	DI0	Com 1	DI8	Com 2
3	DI1	Com 1	DI9	Com 2
4	DI2	Com 1	DI10	Com 2
5	DI3	Com 1	DI11	Com 2
6	DI4	Com 1	DI12	Com 2
7	DI5	Com 1	DI13	Com 2
8	DI6	Com 1	DI14	Com 2
9	DI7	Com 1	DI15	Com 2
10	Vx-	Com 1	Vx-	Com 2

Terminals from Group B (Com1) as well as from Group D (Com2) are all connected together. Those terminals could be used for distributing of potential Vx+ and Vx-, but is not necessary to connect them. Using of them is only up to applicator.

