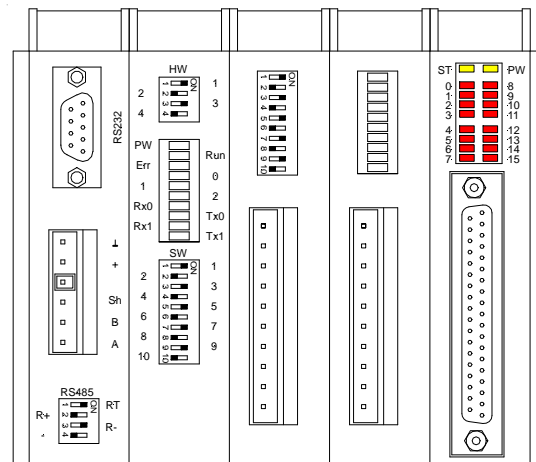


AD-DO16

16 digital outputs 24 V DC 0.3 A

- 16 galvanically separated outputs 24 V DC / 300 mA
- Common GND terminal for all signals
- Output state indication by red LED
- Short circuit and thermal protection
- Overvoltage protection during inductive load switching (relay)
- Self-stacking connection to the AD-CPU167 unit, 35 mm DIN rail mounting
- Optional accessories – AD-S16 terminal block + cable



TECHNICAL DATA

Outputs	16
Common lead	Vx-
Switching element	MOS
Galvanic separation	Yes *)
Switched voltage	24 V DC ± 20 %
Switching current	300 mA
Max. current of current protection circuit	0.7 to 2.5 A
Max. current on common lead Vx+	4.5 A
Residual current at Log. 0	0 mA
Switch on time	40 μ A
Switch off time	100 μ A
Short circuit protection	Electronic
Inductive load protection	Transil 600 W
Power supply	Internal
Max. consumption from internal source	30 mA at 24 V DC
Others	
Max. number of modules	16
Module position in system	No limitation
Signal connection	CANON 37 connector, female
Cover protection rate	IP20
AD-DI8A operating temperature	0 to 70 °C
AD-DI8A/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-DO16	16 digital outputs 24 V DC / 300 mA module, data sheet, warranty card
AD-DO16/I	16 digital outputs 24 V DC / 300 mA module with temperature range -40 to 70 °C, data sheet, warranty card
AD-S16	Terminal block module with WAGO connectors
AD-K37B-xxx	AD-DO16 – 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	DO15
23	DO13
25	DO11
27	DO9
29	DO7
31	DO5
33	DO3
35	DO1
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	DO14
24	DO12
26	DO10
28	DO8
30	DO6
32	DO4
34	DO2
36	DO0

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	DO0	Com 1	DO8	Com 2
3	DO1	Com 1	DO9	Com 2
4	DO2	Com 1	DO10	Com 2
5	DO3	Com 1	DO11	Com 2
6	DO4	Com 1	DO12	Com 2
7	DO5	Com 1	DO13	Com 2
8	DO6	Com 1	DO14	Com 2
9	DO7	Com 1	DO15	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.

