



IO-8DO8AI-M

Distributed I/Os

IO module for expanding Regin's programmable controllers EXOflex, EXOcompact, CLEVERmaster, RU6X and RU9X.

- Built-in relays
- Control switches on the front panel

IO-8DO8AI-M enables easy expansion of a system by 16 additional in-/outputs per controller. All outputs can be controlled manually.

Communication takes place via EXOline or CAN-Bus. Which protocol should be used is set via DIP switches.

- Simple wiring
- Easy to install in a standard casing

Inputs and outputs

IO-8DO8AI-M has 8 inputs and 8 outputs.

8 digital outputs

With manual switch, LEDs and potential-free closing contact.

8 analogue inputs

Support PT1000, Ni1000 (only CAN-Bus), microsensors, 0...10 V, 0...20 mA and 0...10 k Ω .

Technical data

Supply voltage	24 V AC/DC $\pm 15\%$, 50...60 Hz
Power consumption	Max. 3.5 VA
Communication	EXOnline, CAN-Bus
Communication speed	
EXOnline	9600 bps
CAN-bus	20000 bps
Operating temperature	0...50°C
Storage temperature	-20...+70°C
Ambient humidity (operation)	Max. 90 % RH
Protection class	IP20
Mounting	DIN-rail or in a standard casing
Dimensions	148 x 123 x 74 mm (WxHxD) incl. terminals
DIN-rail module width	8.5

Inputs and outputs

Analogue inputs (AI)	PT1000, Ni1000 (only CAN-Bus), microsensors, 0...10 k Ω , 0...10 V, 0(4)...20 mA
Digital outputs (DO)	Potential-free relay (closing) 24 / 230 V AC (not mixable), max. 1 A inductive load or 4 A resistive load



Low Voltage Directive (LVD) standards: This product conforms to the requirements of the European Low Voltage Directive (LVD) 2006/95/EC through product standards EN 60730-1 and EN 60730-2-9.

EMC emissions & immunity standards: This product conforms to the requirements of the EMC Directive 2004/108/EC through product standards EN 61000-6-3:2001 and EN 61000-6-1:2001.

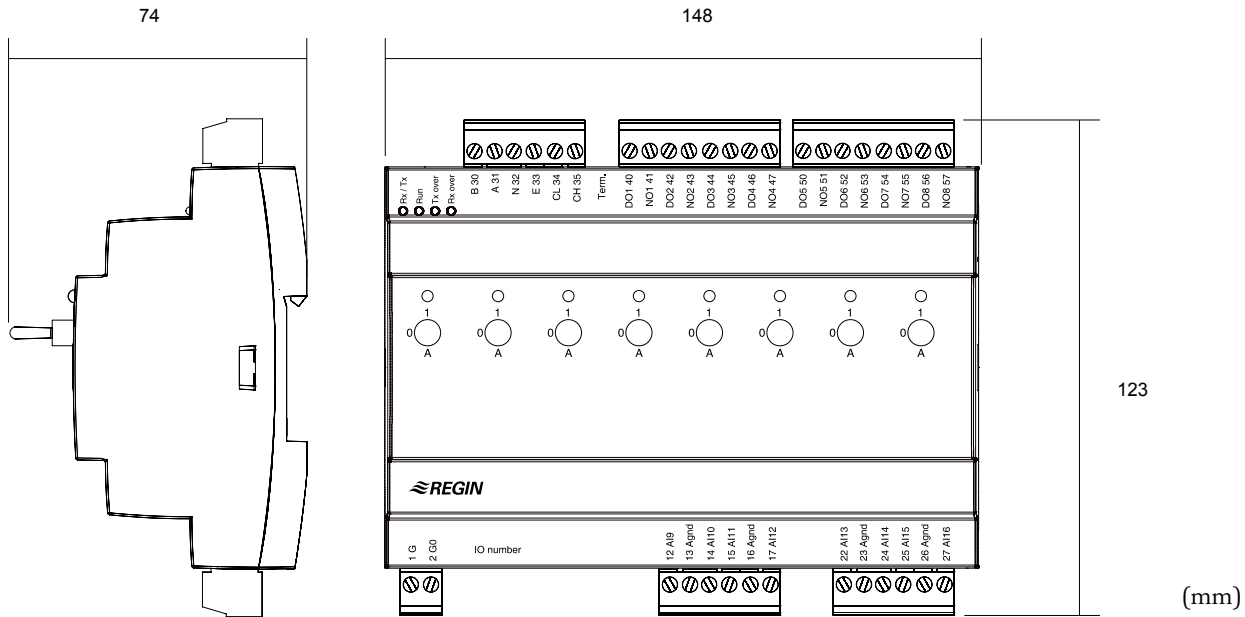
RoHS: This product conforms to the Directive 2011/65/EU of the European Parliament and of the Council.

Wiring

Supply volt.	24V~ / +	1 G			Rx/Tx	Communication status
Supply volt.	24V $\perp$ / -	2 G0			RUN	
					Tx over	
					Rx over	
ON	1 20 1	IO number			B 30	RS485
OFF	2 21 2				A 31	EXOnline
OFF	4 22 3				N 32	RS485 / CAN ground $\perp$
OFF	8 23 4				E 33	EXOnline RS485 (S/R)
OFF	16 24 5				CL 34	CAN-LOW
OFF	32 25 6				CH 35	CAN-HIGH
					Term	R _{END} for CAN
					DO1 40	
					NO1 41	Supply for DO1
					DO2 42	
Ground for AI (sensors)		12 AI9			NO2 43	Supply for DO2
		13 Agnd			DO3 44	
		14 AI10			NO3 45	Supply for DO3
		15 AI11			DO4 46	
Ground for AI (sensors)		16 Agnd			NO4 47	Supply for DO4
		17 AI12				
					DO5 50	
					NO5 51	Supply for DO5
		22 AI13			DO6 52	
Ground for AI (sensors)		23 Agnd			NO6 53	Supply for DO6
		24 AI14			DO7 54	
		25 AI15			NO7 55	Supply for DO7
Ground for AI (sensors)		26 Agnd			DO8 56	
		27 AI16			NO8 57	Supply for DO8

Terminal	Description	Function
1	G (F24~)/+	Supply voltage 24 V AC/DC
2	G0 (F24)/-	Supply voltage 24 V AC/DC
30	B	EXOline RS485
31	A	
32	N	EXOline RS485 / CAN ground
33	E	EXOline RS485 Send/Receive alternating
34	CL	CAN-Low
35	CH	CAN-High
40	DO1	Digital output 1; closing contact, normally open
41	NO1	Supply for DO1
42	DO2	Digital output 2; closing contact, normally open
43	NO2	Supply for DO2
44	DO3	Digital output 3; closing contact, normally open
45	NO3	Supply for DO3
46	DO4	Digital output 4; closing contact, normally open
47	NO4	Supply for DO4
50	DO5	Digital output 5; closing contact, normally open
51	NO5	Supply for DO5
52	DO6	Digital output 6; closing contact, normally open
53	NO6	Supply for DO6
54	DO7	Digital output 7; closing contact, normally open
55	NO7	Supply for DO7
56	DO8	Digital output 8; closing contact, normally open
57	NO8	Supply for DO8
12	AI9	Analogue input 9
13	Agnd	Reference for all analogue inputs
14	AI10	Analogue input 10
15	AI11	Analogue input 11
16	Agnd	Reference for all analogue inputs
17	AI12	Analogue input 12
22	AI13	Analogue input 13
23	Agnd	Reference for all analogue inputs
24	AI14	Analogue input 14
25	AI15	Analogue input 15
26	Agnd	Reference for all analogue inputs
27	AI16	Analogue input 16

Dimensions



Product documentation

Document	Type
I/O modules manual	Manual with detailed information about all Regin's I/O modules
I/O modules in EXO systems	Manual on how to use Regin's I/O modules in an EXO project, as well as a complete list of EXOline variables

The manuals can be downloaded from Regin's FTP server. It is intended for our system customers who need to share files with us, e.g. at technical support. Contact one of our sales engineers to get access to the FTP server.

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THE CHALLENGER IN BUILDING AUTOMATION