

IO-8DO8AI-M

Distributed I/O:s



IO module for expanding Regin's programmable controllers EXOflex, EXOcompact and EXOdos.

- ✓ Simple wiring
- ✓ Easy to install in a standard casing
- ✓ Built-in relays
- ✓ Control switches on the front panel

Function

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.

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

Supports PT1000, Ni1000 (only CAN-Bus), microsensors, 0...10 V, 0...20 mA and 0...10 kΩ.

Technical data

Supply voltage	24 V AC $\pm 15\%$, 50 Hz
Power consumption	Max. 3.5 VA
Communication	EXOline, CAN-bus
Communication speed EXOline CAN-bus	9600 bps 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



Note! The relays have an estimated limit of 10 000 operations and should therefore not be used with 3-point actuators, or equivalent equipment.



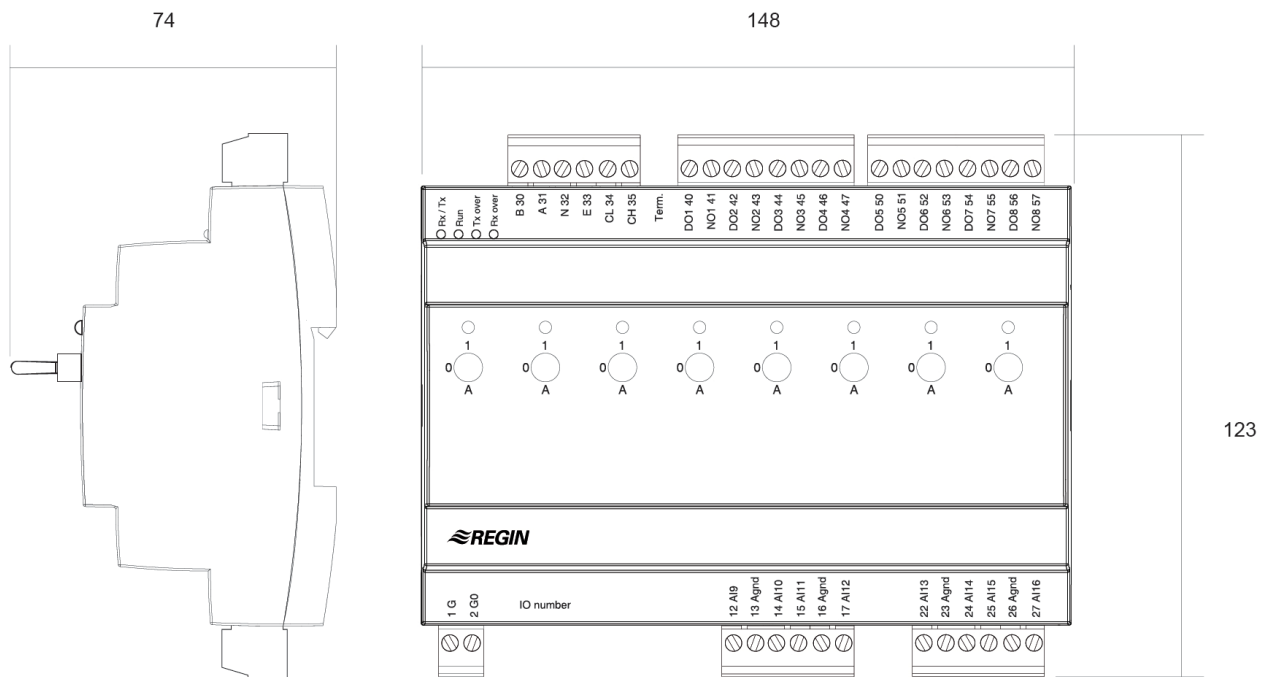
This product carries the CE-mark. More information is available at www.regincontrols.com.

Wiring

Supply voltage	24V AC	1 G		 	Rx/Tx RUN Tx over Rx over	Communication status					
Supply voltage	24V AC	2 G0									
		IO number									
ON	1 2 ⁰ 1										
OFF	2 2 ¹ 2										
OFF	4 2 ² 3										
OFF	8 2 ³ 4										
OFF	16 2 ⁴ 5							 	E 33	EXOnline RS485 (S/R)	
OFF	32 2 ⁵ 6							 	CL 34	CAN-LOW	CAN-Bus
								 	CH 35	CAN-HIGH	
				 	Term	]]]	R _{END} for CAN				
		12 AI9		 	DO1 40						
Ground for AI (sensors)		13 Agnd			NO1 41	Supply for DO1					
		14 AI10			DO2 42						
		15 AI11			NO2 43	Supply for DO2					
Ground for AI (sensors)		16 Agnd		 	DO3 44						
		17 AI12			NO3 45	Supply for DO3					
				 	DO4 46						
					NO4 47	Supply for DO4					
		22 AI13		 	DO5 50						
Ground for AI (sensors)		23 Agnd			NO5 51	Supply for DO5					
		24 AI14			DO6 52						
		25 AI15			NO6 53	Supply for DO6					
Ground for AI (sensors)		26 Agnd		 	DO7 54						
		27 AI16			NO7 55	Supply for DO7					
					DO8 56						
					NO8 57	Supply for DO8					

Terminal	Description	Function
1	G (F24~)/+	Supply voltage 24 V AC
2	G0 (F24)/-	Supply voltage 24 V AC
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
30	B	EXOline RS485
31	A	EXOline RS485
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

Dimensions



[mm]

Documentation

All documentation can be downloaded from www.regincontrols.com.