

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

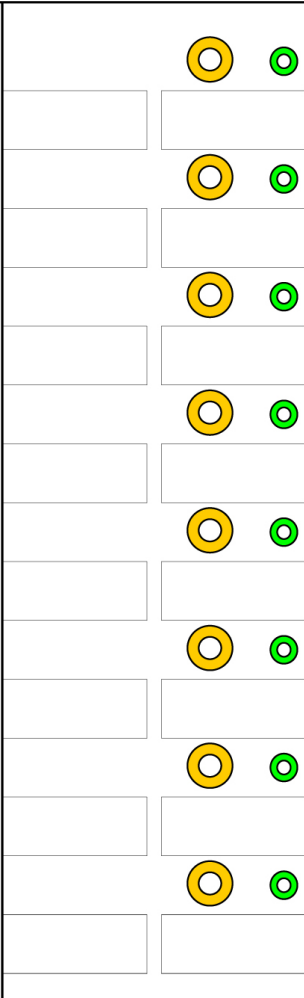


Note! The relays have an estimated limit of 10 000 operations and should therefore not be used with 3-point actuators, or equivalent equipment.



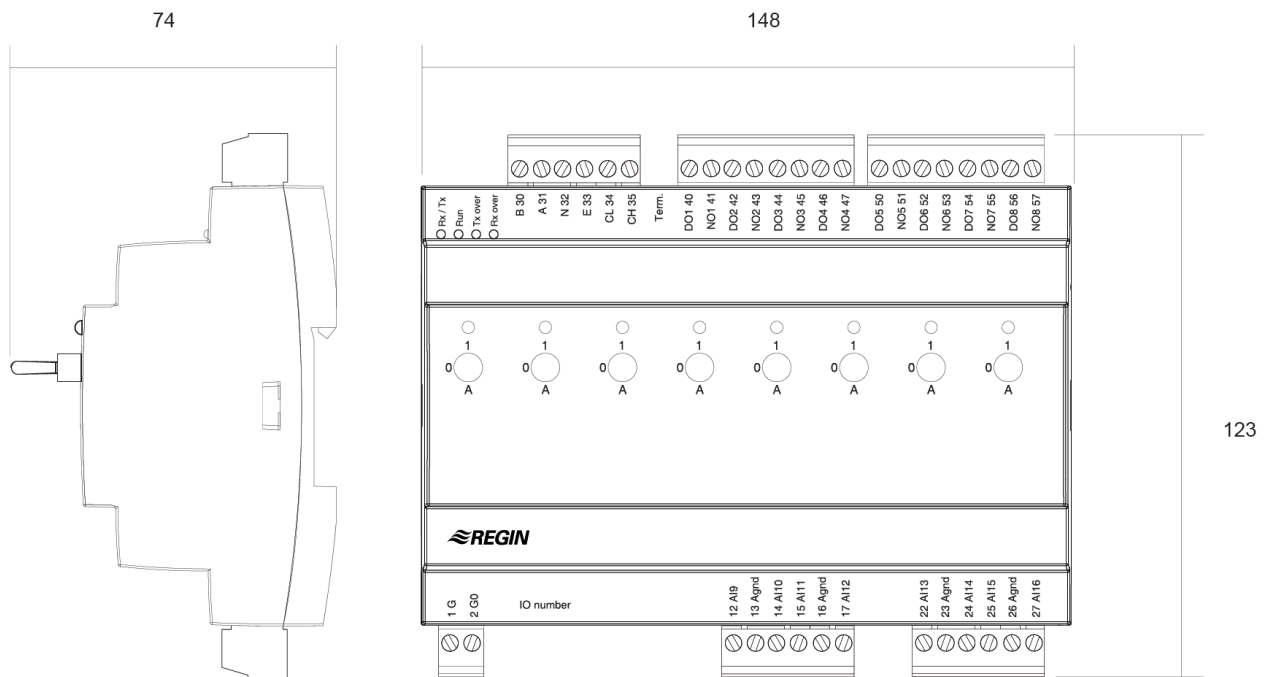
This product carries the CE-mark. More information is available at www.regincontrols.com.

Wiring

Supply voltage		24V AC		1 G	2 G0				Rx/Tx	Communication status		
Supply voltage		24V AC							RUN			
				IO number					Tx over			
									Rx over			
ON	1	2 ⁰	1						B 30		RS485	
OFF	2	2 ¹	2						A 31		EXOnline	
OFF	4	2 ²	3						N 32		RS485 / CAN ground ⊥	
OFF	8	2 ³	4						E 33		EXOnline RS485 (S/R)	
OFF	16	2 ⁴	5						CL 34		CAN-LOW	
OFF	32	2 ⁵	6						CH 35		CAN-HIGH	
									Term		]])	R _{END} for CAN
									DO1 40			
				NO1 41	Supply for DO1							
				DO2 42								
				NO2 43	Supply for DO2							
				DO3 44								
				NO3 45	Supply for DO3							
				DO4 46								
				NO4 47	Supply for DO4							
				DO5 50								
				NO5 51	Supply for DO5							
				DO6 52								
				NO6 53	Supply for DO6							
				DO7 54								
				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.