



IO-16AI

Distributed I/Os

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

- Simple wiring
- Easy to install in a standard casing

IO-16AI enables easy expansion of a system by 16 additional inputs per controller. Communication takes place via EXOline or CAN-Bus. Which protocol should be used is set via DIP switches.

Inputs

IO-16AI has 16 analogue inputs which support PT1000, Ni1000 (only CAN-Bus), microsenors, 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	EXOline, CAN-Bus
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 59 mm (WxHxD) incl. terminals
DIN-rail module width	8.5

Inputs

Analogue inputs (AI)	PT1000, Ni1000 (only CAN-Bus), microsensors, 0...10 k Ω , 0...10 V, 0(4)...20 mA
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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.

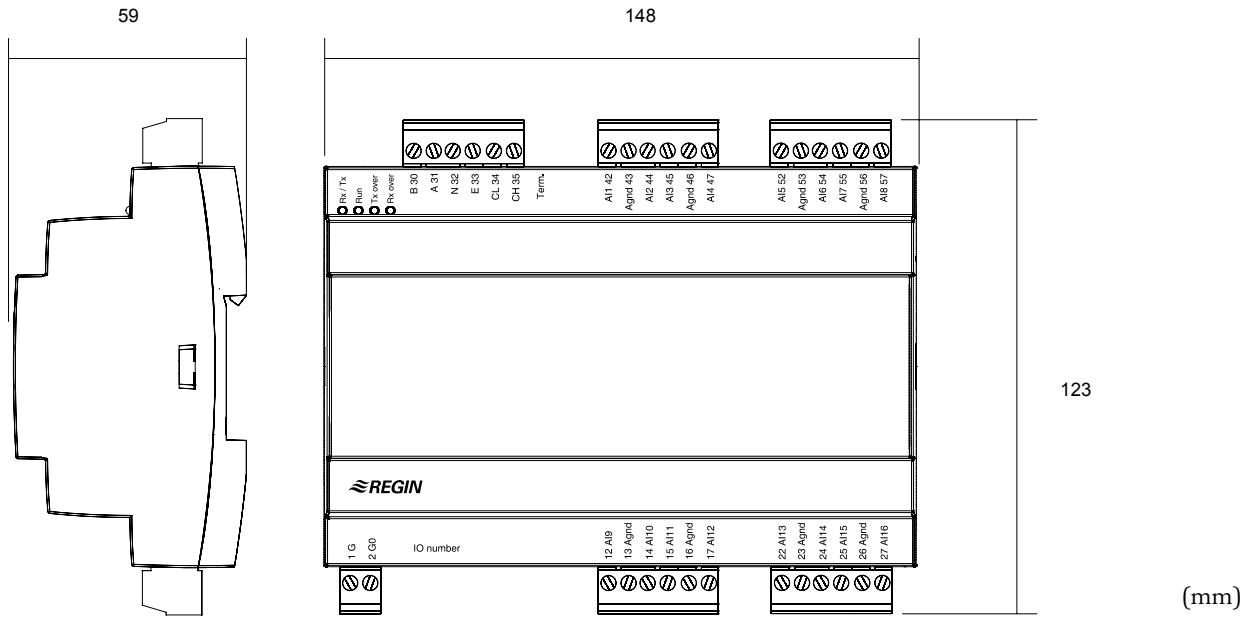
RoHS: This product conforms to the Directive 2011/65/EU of the European Parliament and of the Council.

Wiring

Supply volt.	24V~ / +	IO number	1 G	2 G0					Rx/Tx	Communication status		
Supply volt.	24V⊥ / -								RUN			
									Tx over			
									Rx over			
ON	1 20 1								B 30		RS485	
OFF	1 21 2								A 31		EXOline	
OFF	2 22 3								N 32		RS485 / CAN ground ⊥	
OFF	4 23 4								E 33		EXOline RS485 (S/R)	
OFF	8 24 5								CL 34		CAN-LOW	CAN-Bus
OFF	16 25 6								CH 35		CAN-HIGH	
									Term		]]]	R _{END} for CAN
			</									

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
42	AI1	Analogue input 1
43	Agnd	Reference for all analogue inputs
44	AI2	Analogue input 2
45	AI3	Analogue input 3
46	Agnd	Reference for all analogue inputs
47	AI4	Analogue input 4
52	AI5	Analogue input 5
53	Agnd	Reference for all analogue inputs
54	AI6	Analogue input 6
55	AI7	Analogue input 7
56	Agnd	Reference for all analogue inputs
57	AI8	Analogue input 8
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
IO modules manual	Manual for the IO modules

The document 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.