revision
02 2013

IO-4X4-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**
- **Analogue outputs with possibility of manual control**
- **Simple wiring**
- **Easy to install in a standard casing**

IO-4X4-M enables easy expansion of a system by 16 additional in-/outputs per controller. All outputs (digital/analogue) 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-4X4-M has 16 in- and outputs.

4 digital inputs with pulse counting
Indication via LEDs.

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

4 analogue inputs
Support PT1000, Ni1000 (only CAN-Bus), microsensors, 0...10 V, 0...20 mA and 0...10 kΩ.

4 analogue outputs
0...10 V with possibility of manual operation via switches.

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Technical data

Supply voltage	24 V AC/DC ±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 74 mm (WxHxD) incl. terminals
DIN-rail module width	8.5

Inputs

Analogue inputs (AI)	PT1000, Ni1000 (only CAN-Bus), microsensors, 0…10 kΩ, 0...10 V, 0(4)...20 mA
Digital inputs (DI)	Potential-free closing contact between +C and DI, 24 V DC, can be configured as a pulse input

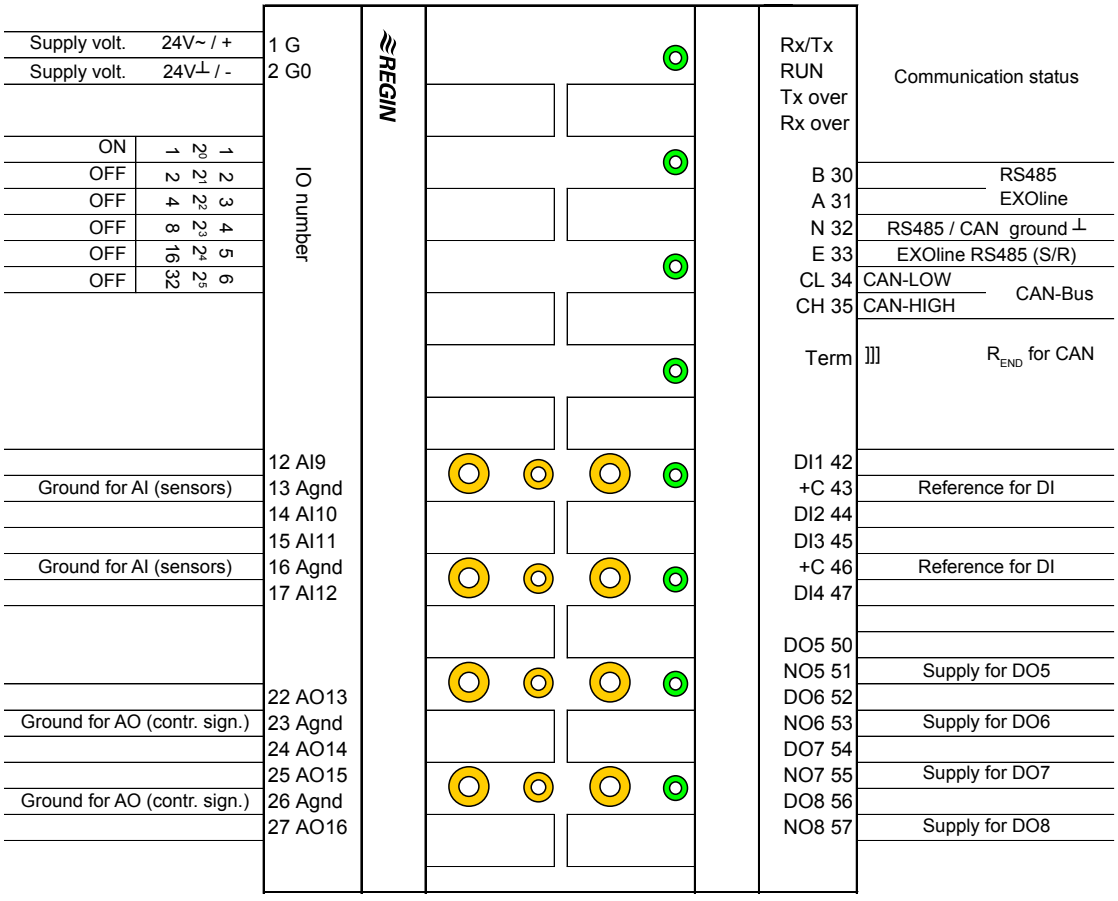
Outputs

Analogue outputs (AO)	0...10 V DC, 5 mA, 8 bit D/A, short-circuit proof
Digital outputs (DO)	Potential-free relay (closing) 24 / 230 V AC (not mixable), max. 1 A inductive

CE

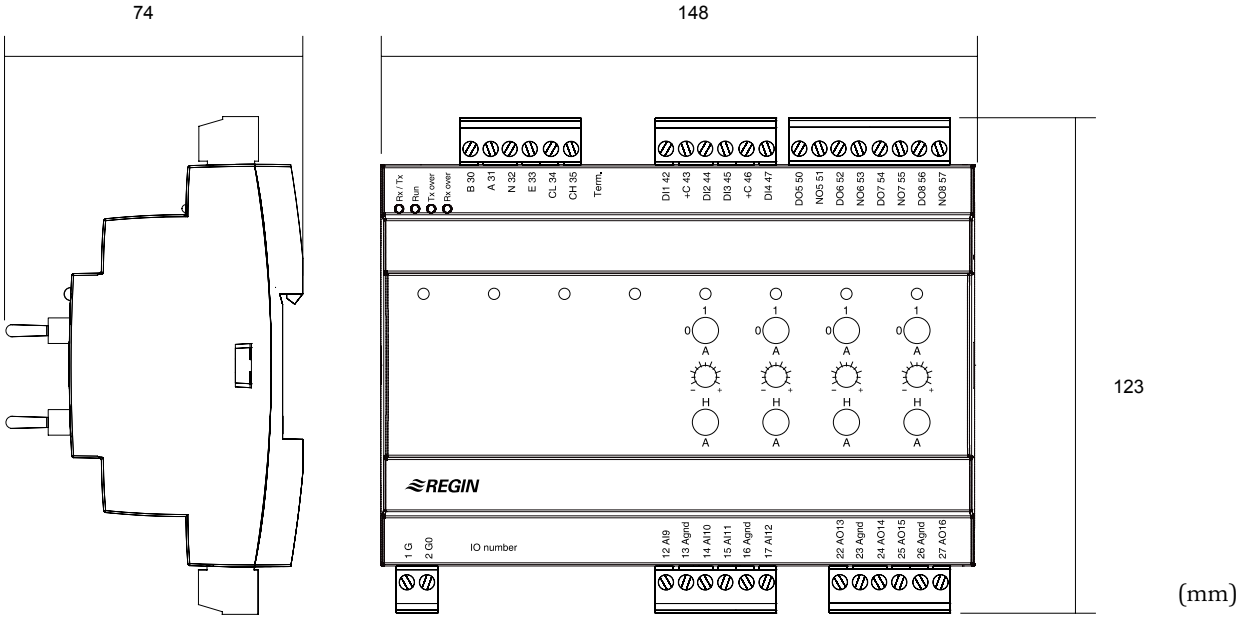
Low Voltage Directive (LVD) standards: This product conforms to the requirements of the European Low Voltage Directive (LVD) 2006/95/EC through product standards EN 60730-1 and EN 60730-2-9.
EMC emissions & immunity standards: This product conforms to the requirements of the EMC Directive 2004/108/EC 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



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	DI1	Digital input 1
43	+C	24 V DC for all digital inputs
44	DI2	Digital input 2
45	DI3	Digital input 3
46	+C	24 V DC for all digital inputs
47	DI4	Digital input 4
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	AO13	Analogue output 13
23	Agnd	Reference for all analogue outputs
24	AO14	Analogue output 14
25	AO15	Analogue output 15
26	Agnd	Reference for all analogue outputs
27	AO16	Analogue output 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.

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