



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), microsensors, 0...10 V, 0...20 mA and 0...10 k Ω .

Technical data

| | |
|------------------------------|---|
| Supply voltage | 24 V AC/DC ±15 %, 50...60 Hz |
| Power consumption | Max. 3.5 VA |
| Communication | EXOnline, 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 kΩ, 0...10 V, 0(4)...20 mA

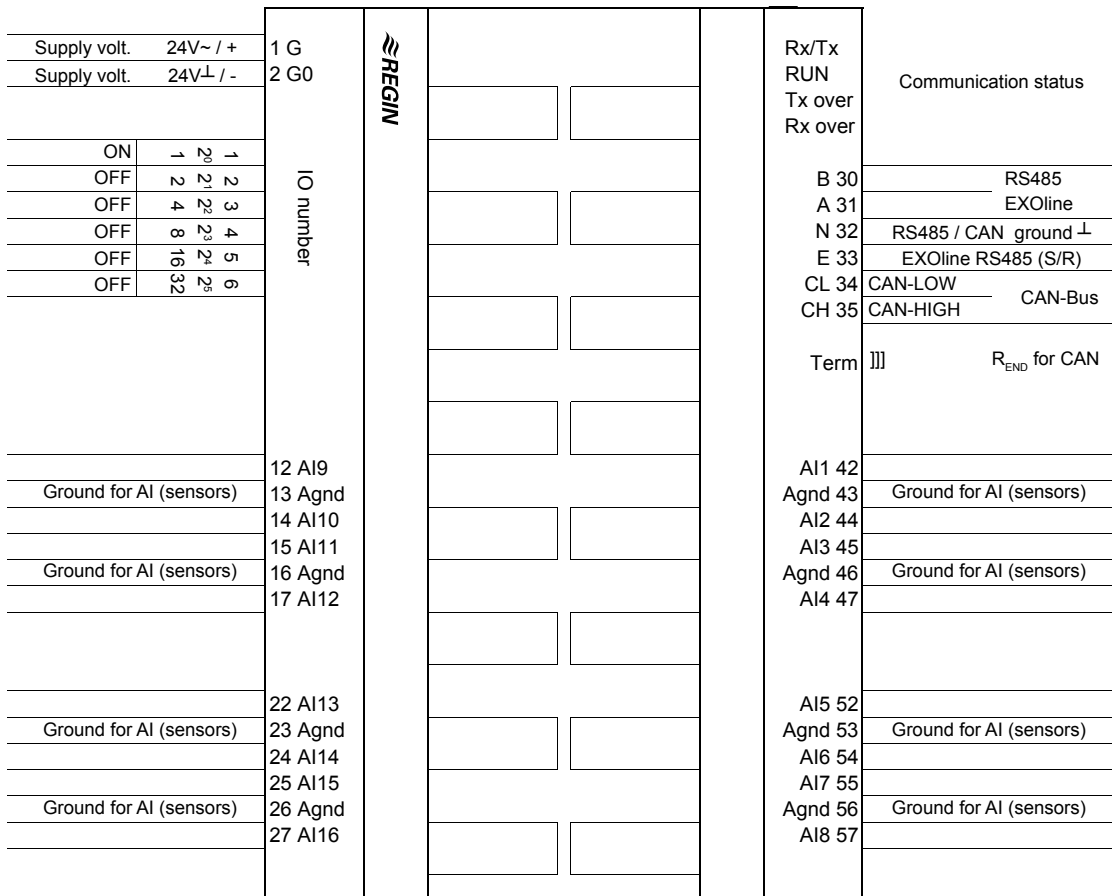


Low Voltage Directive (LVD) standards: This product conforms to the requirements of the European Low Voltage Directive (LVD) 2006/95/EC through product standards EN 60730-1 and EN 60730-2-9.

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.

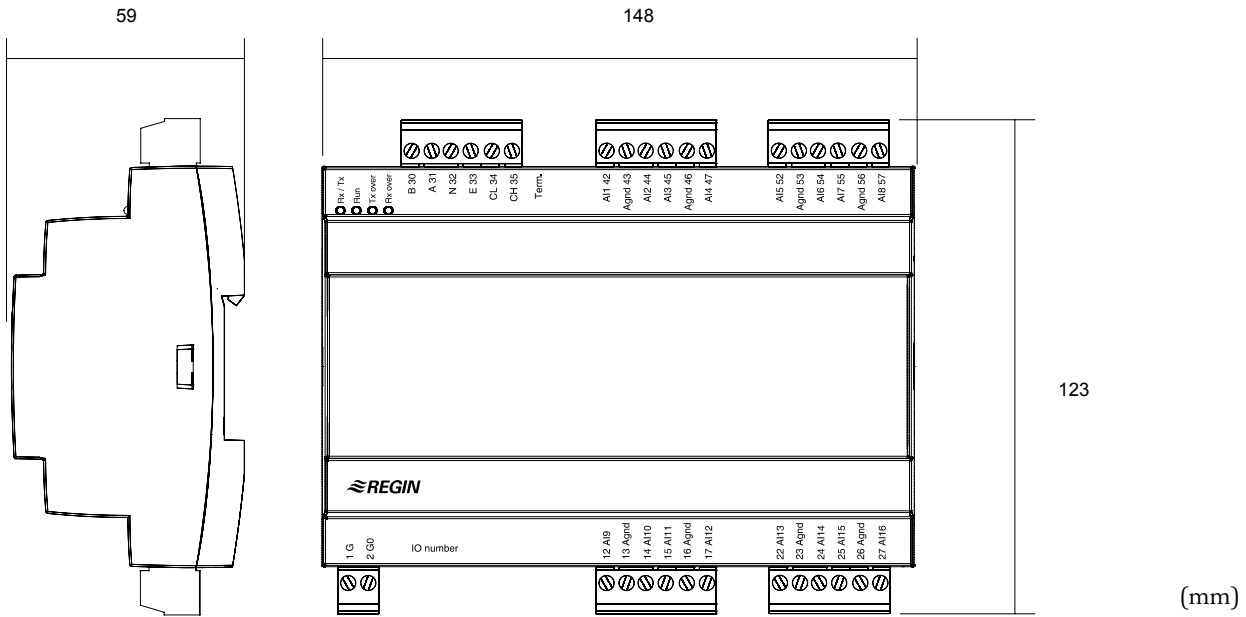
RoHS: This product conforms to the Directive 2011/65/EU of the European Parliament and of the Council.

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 | 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.

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