Contents [hide]

REGIN IO-16DI Module With 16 Digital Inputs

Specifications

- Supply voltage 24 V AC ±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 60 mm (WxHxD) incl. terminals
- DIN-rail module width 148 x 123 x 60 mm (WxHxD) incl. terminals

Inputs

- **Digital inputs (DI)** Potential-free closing contact between +C and DI, 24 V DC, can be configured as a pulse input.

Product Usage Instructions

Functionality:
The IO-16DI module is designed to expand Regin's programmable controllers, such as EXOflex, EXOcompact, and EXOdo,s by providing 16 additional digital inputs per controller. Communication with the controllers occurs through either EXOline or CAN-Bus, with the protocol selection set using DIP switches.

Inputs:
The IO-16DI module features 16 digital inputs with pulse counting capability. Each input is equipped with LEDs for easy indication.

Wiring:
Wiring the IO-16DI module involves connecting the terminals based on the provided descriptions. Ensure proper connections to enable the input signals to be received accurately by the module.

Installation:
The IO-16DI module is designed for easy installation in a standard casing. Follow the

mounting guidelines for DIN-rail modules to securely place the module in the desired location.

Configuration:
Before using the IO-16DI module, configure the communication protocol (EXOline or CAN-Bus) via the DIP switches according to your system requirements.

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

- Simple wiring
- Easy to install in a standard casing

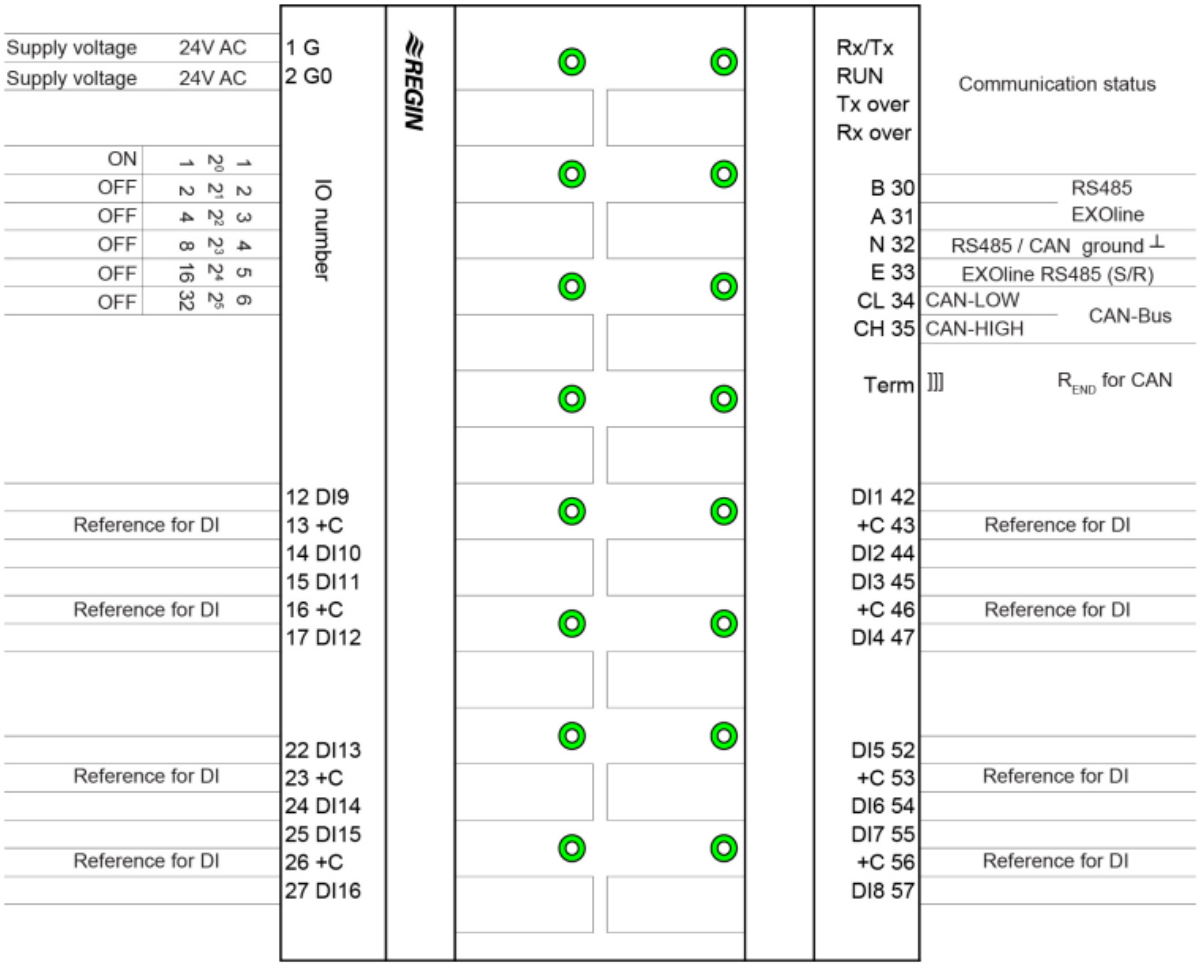
Function

- IO-16DI 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-16DI has 16 digital inputs with pulse counting. The input is indicated via LEDs.

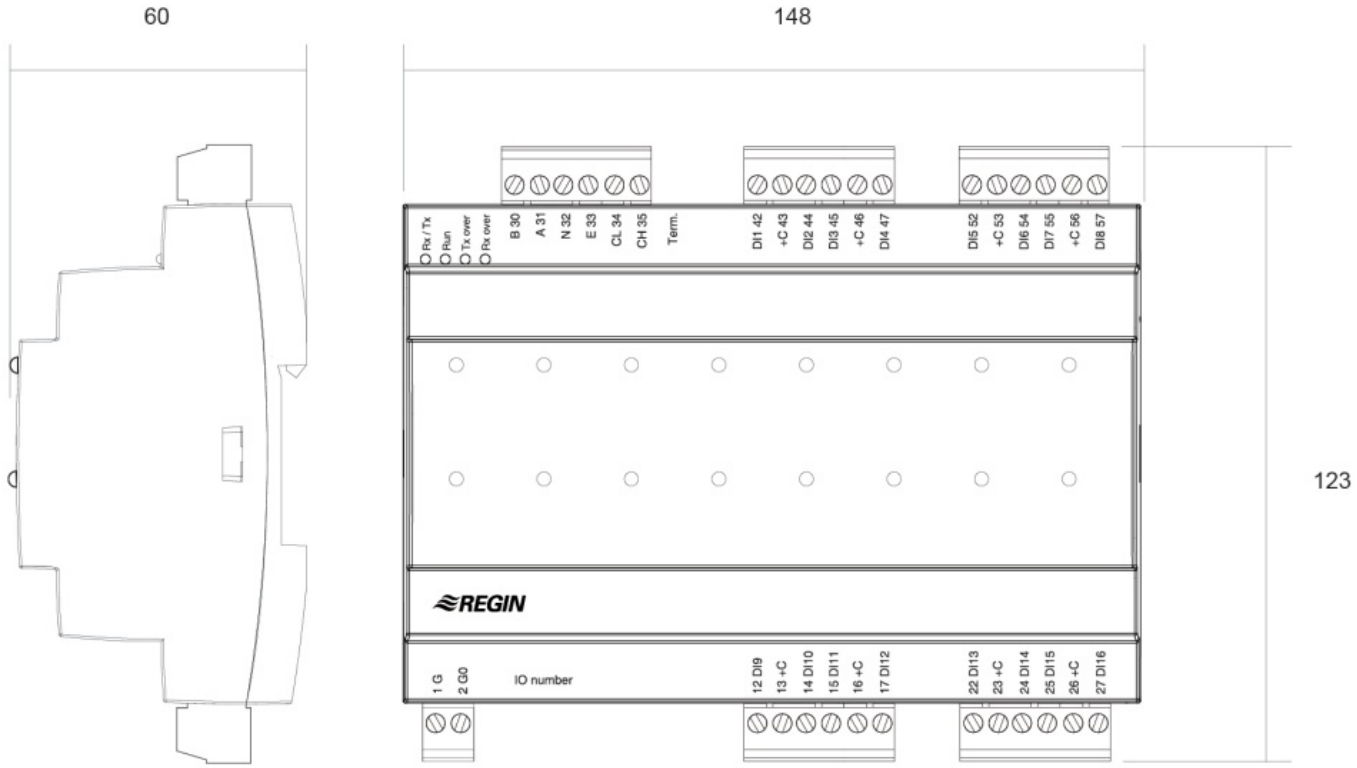
CE This product carries the CE mark. More information is available at www.regincontrols.com.

Wiring


Supply voltage 24V AC
Supply voltage 24V AC
1 G
2 G0
REGIN
Rx/Tx
RUN
Tx over
Rx over
Communication status
ON 1 2⁰ 1
OFF 2 2¹ 2
OFF 4 2² 3
OFF 8 2³ 4
OFF 16 2⁴ 5
OFF 32 2⁵ 6
IO number
B 30
A 31
N 32
E 33
CL 34
CH 35
RS485
EXOline
RS485 / CAN ground ⊥
EXOline RS485 (S/R)
CAN-LOW
CAN-HIGH
CAN-Bus
Term]]]
R END for CAN
12 DI9
Reference for DI
13 +C
14 DI10
15 DI11
Reference for DI
16 +C
17 DI12
22 DI13
Reference for DI
23 +C
24 DI14
25 DI15
Reference for DI
26 +C
27 DI16
DI1 42
+C 43
Reference for DI
DI2 44
DI3 45
+C 46
Reference for DI
DI4 47
DI5 52
+C 53
Reference for DI
DI6 54
DI7 55
+C 56
Reference for DI
DI8 57

Terminal	Description	Function
1	G (F24~)/+	Supply voltage 24 V AC
2	G (F24~)/+	Supply voltage 24 V AC
12	DI9	Digital input 9
13	+C	24 V DC for all digital inputs
14	DI10	Digital input 10
15	DI11	Digital input 11
16	+C	24 V DC for all digital inputs
17	DI12	Digital input 12
22	DI13	Digital input 13
23	+C	24 V DC for all digital inputs
24	DI14	Digital input 14
25	DI15	Digital input 15
26	+C	24 V DC for all digital inputs
27	DI16	Digital 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
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
52	DI5	Digital input 5
53	+C	24 V DC for all digital inputs
54	DI6	Digital input 6
55	DI7	Digital input 7
56	+C	24 V DC for all digital inputs
57	DI8	Digital input 8

Dimensions



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Documentation

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

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FAQs

Q: How do I know which communication protocol to use?

A: The communication protocol (EXOline or CAN-Bus) should be selected based on the compatibility with your existing system and the communication requirements of your application. Refer to the system specifications or consult with a technical expert for guidance on protocol selection.

Documents / Resources

	REGIN IO-16DI Module With 16 Digital Inputs [pdf] Owner's Manual EXOflex, EXOcompact, EXOdos, IO-16DI Module With 16 Digital Inputs, IO-16DI, Module With 16 Digital Inputs, 16 Digital Inputs, Digital Inputs

References

- User Manual

REGIN

16 Digital Inputs, Digital Inputs, EXOcompact, EXOdos, EXOflex, IO-16DI, IO-16DI Module With 16 Digital Inputs, Module With 16 Digital Inputs, REGIN

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