



IO-16DO-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

IO-16DO-M enables easy expansion of a system by 16 additional 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.

- Simple wiring
- Easy to install in a standard casing

Outputs

IO-16DO-M has 16 digital outputs with manual switches, LEDs and potential-free closing contact.

Technical data

Supply voltage	24 V AC/DC $\pm 15\%$, 50...60 Hz
Power consumption	Max. 3.5 VA
Communication	EXOnline, CAN-Bus
Communication speed	
EXOnline	9600 bps
CAN-bus	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

Outputs

Digital outputs (DO)	Potential-free relay (closing)
	24 / 230 V AC (not mixable), max. 1 A inductive load or 4 A resistive load



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.

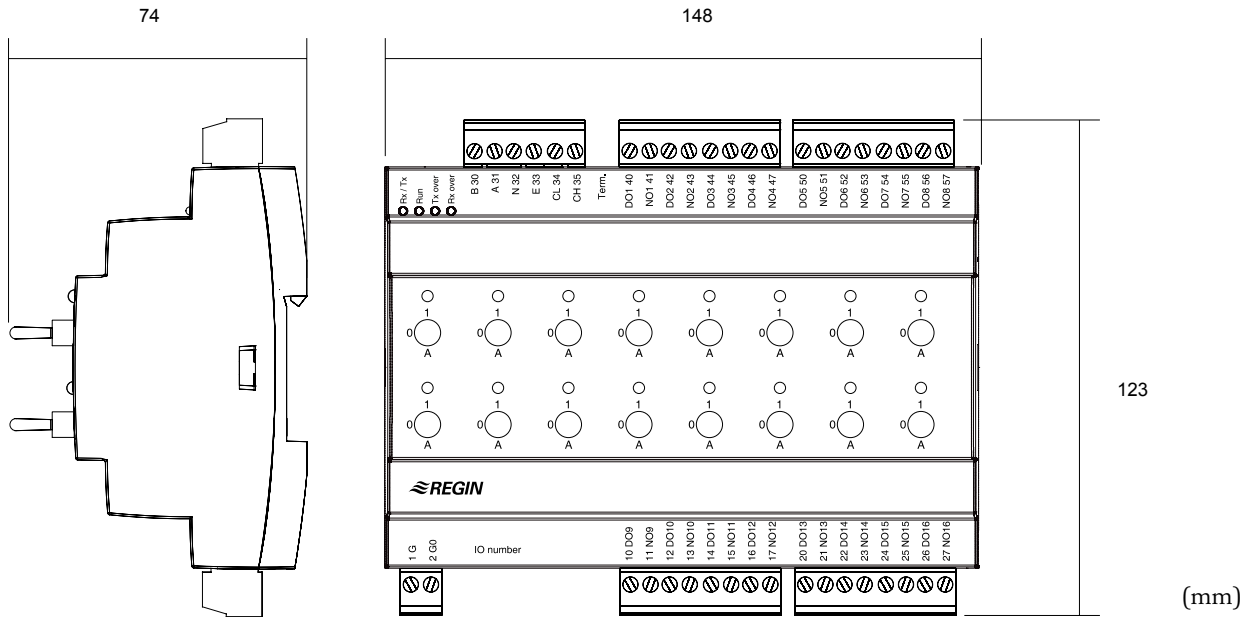
RoHS: This product conforms to the Directive 2011/65/EU of the European Parliament and of the Council.

Wiring

Supply volt. 24V~ / +	1 G			Rx/Tx	Communication status
Supply volt. 24V⊥ / -	2 G0			RUN	
				Tx over	
				Rx over	
ON 1 20 1 2	IO number			B 30	RS485
OFF 2 21 2 3				A 31	EXOnline
OFF 4 22 3 4				N 32	RS485 / CAN ground ⊥
OFF 8 23 4 5				E 33	EXOnline RS485 (S/R)
OFF 16 24 5 6				CL 34	CAN-LOW
OFF 32 25 6				CH 35	CAN-HIGH
				Term III	R _{END} for CAN
	10 DO9			DO1 40	
Supply for DO9	11 NO9			NO1 41	Supply for DO1
	12 DO10			DO2 42	
Supply for DO10	13 NO10			NO2 43	Supply for DO2
	14 DO11			DO3 44	
Supply for DO11	15 NO11			NO3 45	Supply for DO3
	16 DO12			DO4 46	
Supply for DO12	17 NO12			NO4 47	Supply for DO4
	20 DO13			DO5 50	
Supply for DO13	21 NO13			NO5 51	Supply for DO5
	22 DO14			DO6 52	
Supply for DO14	23 NO14			NO6 53	Supply for DO6
	24 DO15			DO7 54	
Supply for DO15	25 NO15			NO7 55	Supply for DO7
	26 DO16			DO8 56	
Supply for DO16	27 NO16			NO8 57	Supply for DO8

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
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
10	DO9	Digital output 9; closing contact, normally open
11	NO9	Supply for DO9
12	DO10	Digital output 10; closing contact, normally open
13	NO10	Supply for DO10
14	DO11	Digital output 11; closing contact, normally open
15	NO11	Supply for DO11
16	DO12	Digital output 12; closing contact, normally open
17	NO12	Supply for DO12
20	DO13	Digital output 13; closing contact, normally open
21	NO13	Supply for DO13
22	DO14	Digital output 14; closing contact, normally open
23	NO14	Supply for DO14
24	DO15	Digital output 15; closing contact, normally open
25	NO15	Supply for DO15
26	DO16	Digital output 16; closing contact, normally open
27	NO16	Supply for DO16

Dimensions



Product documentation

Document	Type
I/O modules manual	Manual with detailed information about all Regin's I/O modules
I/O modules in EXO systems	Manual on how to use Regin's I/O modules in an EXO project, as well as a complete list of EXOline variables

The manuals 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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