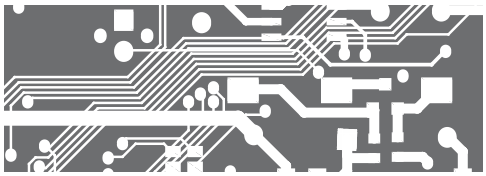
OMC 8000-8DI.10DOCR

8x DIGITAL INPUTS + 5x OC-NPN + 5x RELAYS



CONNECTING THE MODULE

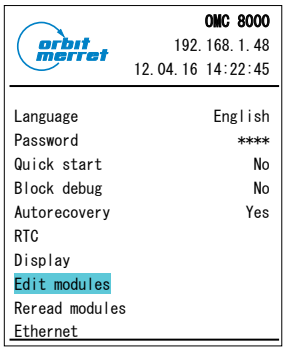
Prior to wiring the module to the power supply, always make sure the power supply is switched off

1. Connect module OMC 8000-8DI.10DOCR to the main module using an included connector cable (female connectors are located at the top of the module housing and protected by a circular rubber plug)
2. Switch on the power supply of the whole system
3. Assign an address to the newly connected module (see Edit Modules setting below)
4. Switch off the power supply of the whole system

ENTERING THE MENU OF OMC 8000

Instrument's menu can be entered in two different ways:

1. By pressing the OK key while the screen which lists the connected modules is displayed and hold it for the entire duration of its projection. Alternatively the OK key can be kept pressed already from the moment of Power-on.
2. By pressing the UP and DOWN keys simultaneously for 3 seconds (Arrow Up and Arrow Down) provided the PLC program is not running (LED RUN is not on). Only in this way the menu item Start can be accessed.



EDIT MODULES SETTING

This menu item allows assigning addresses to connected modules. In case there is no module connected, the screen is empty.

Changes realized in this setting are executed immediately. Pressing the ESC key does notmean the setting has not been already saved.

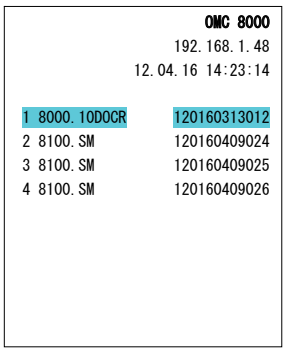
Keys UP/DOWN are used to select the module which is to be assigned. LED RUN flashes on the momentarily selected module.

Pressing the OK key activates the module to be assigned. The module's details are shown in inverse colors on the display.

UP/DOWN keys rank the module into the desired position in the list.

The OK button Unhighlights the module.

ESC key terminates the process of assigning addresses.



RE-READ MODULES SETTING

Resets the table of modules and reads it again.

The rest is as described above.

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OMC 8000-8DI.10DOCR
TECHNICAL DATA

DIGITAL INPUTS

Number	8
Range	12...30 V AC/DC or 80...250 V AC/DC (the range is identical with the instrument's power supply)
Level - Log. 0	< 1,5 V
Level - Log. 1	> 12 V
Max. current	2,5 mA
Response time	typically 4 ms
LED signalisation	yes

TECHNICAL SPECIFICATION

TC	50 ppm/°C
Task	1 ms
Overload capacity	10x (t < 30 ms), 2x
Communication	CANBUS with speed of 1 Mbit/at 40 meters
Watch-dog	reset after 500 ms
Calibration	at 25°C and 40 % r.h.

DIGITAL OUTPUTS

Type	digital
Relay	ON/OFF 5x relay with switch-on contact (Form A), (250 VAC/24 VDC, 10 A)*
Open collectors (PWM 10 kHz)	for all outputs 5x open collectors, (30 VDC/300 mA)*
Open collectors (PWM 1,25 MHz)	Period is set simultaneously for 1 pair only DO0.5, DO0.6 + 0.7, DO1.0 + 1.1 Distorsion caused by output circuits is max. 10 µs Signal with duty cycle 1:(Max - 1) is not generated - Output is off (0:Max) 5x open collectors, (30 VDC/300 mA)*
Reaction speed	< 8 ms (relay)/1 ms (OC)
Relay	1/8 HP 277 VAC, 1/10 HP 125 V, Pilot Duty D300
LED signalisation	yes

* values relate to resistive load

POWER SUPPLY

Range	10...30 VDC/24 VAC, ±10 %, 5 VA, PF≥ 0,4, 80...250 VDC/VAC, ±10 %, 5 VA, PF≥ 0,4, I_{STP}< 40 A/1 ms, isolated
Current via bus	max. 525 mA

MECHANICAL PROPERTIES

Material	PA 66, incombustible UL 94 V-0, blue
Dimensions	72 x 91 x 60 mm
Mechanical fixation	on DIN rail 35 mm wide

OPEARTING CONDITIONS

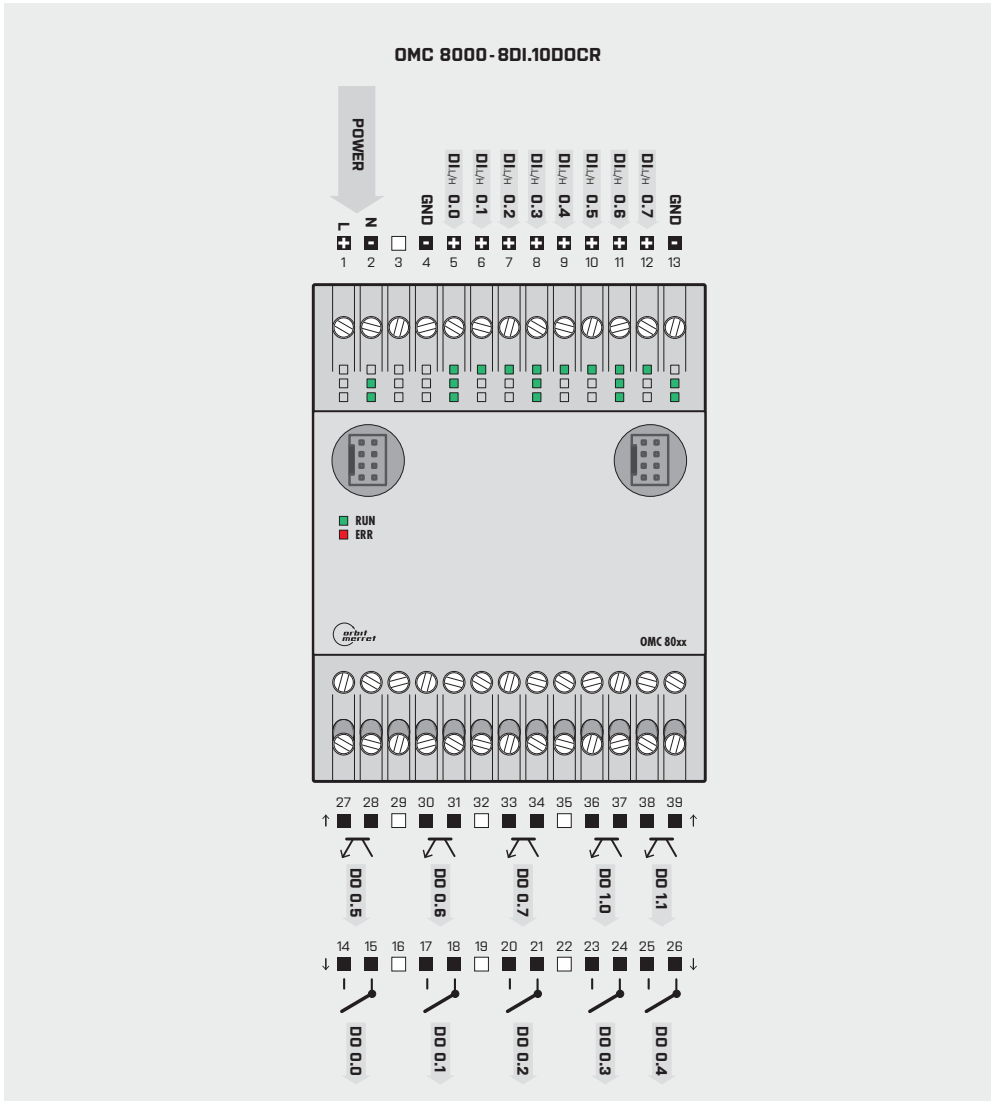
Connection	screw terminals, cross section < 2,5 mm²
Operating temperature	-20°...60°C
Storage temperature	-20°...85°C
IP rating	IP20
Execution	Safety class I
El. safety	EN 61010-1, A2
Dielectric strength	4 kVAC for 1 min. between power and input/output 2,5 kVAC for 1 min. between bus and input/output
Isolation resistance	for pollution degree II, measuring cat III 300 V (PI), 150 (DI)
EMC	EN 61326-1 (Industrial environment)
Seismic capacity	IEC 980: 1993, art.6

* PI - Primary isolation, DI - Double isolation

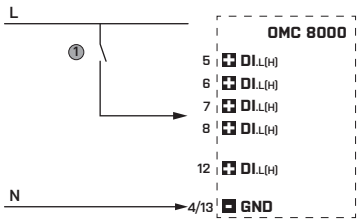
Power supply leads should not be in the vicinity of the low level input signal leads. Contactors, electrical motors and other power devices are not allowed near the input signal leads.
Input signal leads (measured value) should be at a safe distance from all power lines and appliances. Even though this device has been successfully tested in accordance with international standards for use in industrial areas, we still recommend to adhere to the afore mentioned simple rules.

If the manufacturer is to assume the warranty conditions provided for the device's proper functionality it is essential that the shielding of the input signal wires is connected to the metal frame of the electrical switchboard!

OMC 8000-8DI.10DOCR
CONNECTION



Connection of digital inputs



1 Contact

Connection digital outputs