

## Protected I/O (Distributors) on CANopen Interface

The protected I/O modules (IP67 degree of protection) with CANopen interface are available in Node unit and in Expansion unit and they have a type of signals established and/or configurable in function of the model. The name of each connector/led are pressed on the external side of the box. There are foreseen the housing for labels in order to identify the signals.

The number of Node units that can be added to the CANopen line of ISAC CNC depends on the elaboration capability of the central unit (See General Catalogue – Table Axis and Size).

The maximum number of expansions that can be connected to each node is 3.

Here below there are the main characteristics and the description so units.

Type	Model	Description			Details
		Inputs (i)	Output (o)	Configurable I/O (c)	
Node	OPRIP8+8P5	8	/	8	CANopen interface
Expansion	OPEXP16	16	/	/	
Node	OPRIP8+24	8	24	/	CANopen interface

### Note

(i) = Digital inputs PNP opt-isolated 24Vdc (Range 17 ... 27 Vdc)

(o) = Digital outputs semi-conductor type and range: 24 Vdc-0,15 A for OPRIP8+24 or range 24 Vdc at 0,5 A on OPRIP8+8P5

(c) = Each connector can be configured or Digital Input (i) or Digital Output (o).

The overall dimensions are the same for every units and they are the following:

HEIGHT	235,0 mm
WIDTH	60,0 mm
DEPTH	33,0 mm

For CANopen draft implementations see “CANopen Specifications”.

They allow the Bit Rate selection and addressing either via Hardware and via software with profile DSP-305 V1.1.1. The available addresses are 99.

WARNING: The CANopen Master card of the ISAC CNCs supports 63 addresses.

The wiring must be made by means of CAN cable “4 wires + shield” (DESINA) and pre-headed cables. They allow separated 24 Vdc power supply among logic section (CAN signals) and power section (I/O). The connectors available are standard ones of type M16 for power signal and M12 for CAN signal, digital inputs/outputs and for expansions connecting.

The maximum length among Node and expansion is 2 mt.

The OPRIP8+24 represents a valid and a low cost solution for the controlling of the most common group

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of electro-valves without need of expensive integrated controller: in fact through the 25 pin SUB-D connector it can be directly connected to every group equipped with corresponding connector.

***Technical characteristics***

- Degree of protection is IP67
- The working temperature is  $-10 \dots +75$  centigrade degree.

**OPRIP8+8P5**



**OPEXP16**



**OPRIP8+24**

