

# PLIO06, PLIO06-CDS MULTIFUNCTION DIGITAL I/O MODULE

- PLIO06:**
- 8 digital inputs
  - 6 digital outputs
  - 1 relay output

The PLIO06 is a compact multifunction I/O module. It has been designed as an optional plug-in for the eTOP Series 500 HMI products. The PLIO06 provides typical industrial isolated digital inputs and outputs.

The PLIO06-CDS has installed CODESYS™ softlogic system.

## Specifications DIGITAL INPUTS

Description	Specifications
Input channels	8 digital optoisolated (industrial standard) source active high (+24VDC) inputs. All inputs are internally connected to 0VDC of PLIO06 power supply.
Input voltage range	12÷30VDC (min 3mA), 35VDC max for 500 ms
ON-state voltage/current	12÷30VDC (min 3mA) 6mA @ 24VDC, 9mA @ 30VDC
OFF-state voltage/current	6VDC max, 1mA
Input impedance	3,3K Ohm
Input filter delay max	50 µs
Debounce filter	Programmable 0.1ms to 20ms
Isolation	1500 Vrms
Connector type	Ommimate Range header/plugs 3.5mm-10 contacts (two piece terminal blocks) SL-SMT 3.5/180F Box + BLZF 3.5/180F

## DIGITAL OUTPUTS

Description	Specifications
Output channels	6 digital source type optoisolated outputs with feedback of output driver fault status.
Output voltage	12÷30VDC
Output current	0.5A
Output delay time	150 µs max
Output protection	Overcurrent and overtemperature protected driver
Isolation	1500 Vrms
Connector type	Ommimate Range header/plugs 3.5mm-10 contacts (two piece terminal blocks) SL-SMT 3.5/180F Box + BLZF 3.5/180F

## RELAY OUTPUT

Description	Specifications
Output channels type	Relay single contact (norm open)
Load	Resistive load
Rated load	1A at 30Vrms
Max switching voltage	42.4Vac (30Vrms); 60Vdc
Max switching current	1A
Isolation	1500 Vrms

## ENVIRONMENTAL CONDITIONS

Description	Specifications
Operating temperature	0÷50 °C
Storage temperature	-20÷70 °C
Operating humidity	5÷85% relative humidity, non condensing
Protection class	IP20

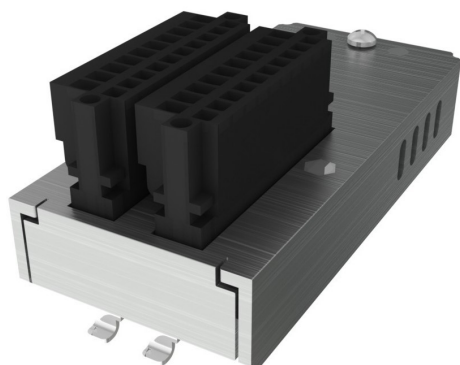
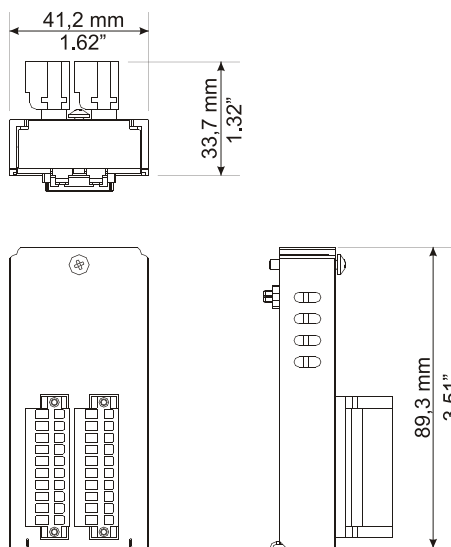
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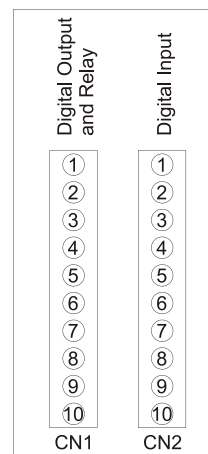
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## Dimensions



## Pin assignment/connectors view



CN1 (Dig. Out.)      CN2 (Dig. In.)

- |           |        |
|-----------|--------|
| 1 +24V    | 1 +24V |
| 2 Relay 1 | 2 In 1 |
| 3 Relay 2 | 3 In 2 |
| 4 Out 1   | 4 In 3 |
| 5 Out 2   | 5 In 4 |
| 6 Out 3   | 6 In 5 |
| 7 Out 4   | 7 In 6 |
| 8 Out 5   | 8 In 7 |
| 9 Out 6   | 9 In 8 |
| 10 GND    | 10 GND |

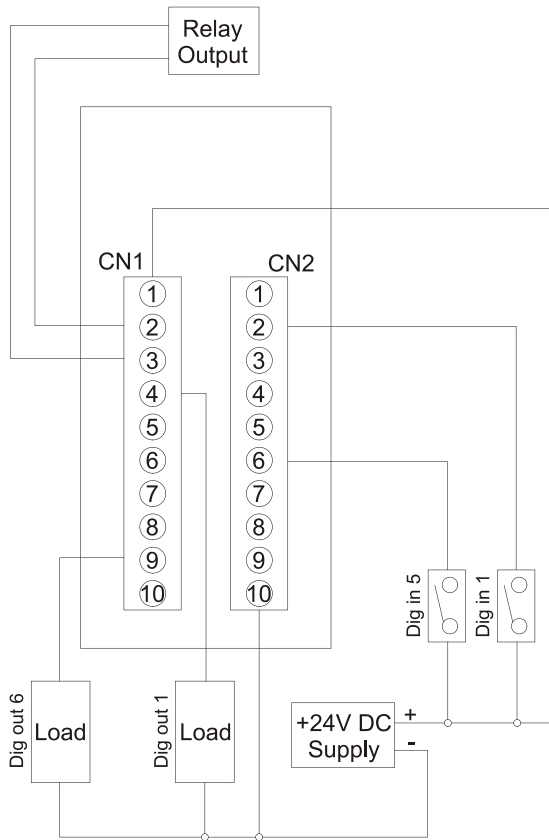
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**Wiring examples (standard digital inputs and outputs)**



**Note on wiring**

The cables must be no longer than 30m.

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The products have been designed for use on Exor products with expansion slot for plugin module for use in an industrial environment in compliance with the 2014/30/EU directive

The products have been designed in compliance with:

- |              |                  |
|--------------|------------------|
| EN 61000-6-4 | EN 55011 Class A |
| EN 61000-6-2 | EN 61000-4-2     |
|              | EN 61000-4-3     |
|              | EN 61000-4-4     |
|              | EN 61000-4-5     |
|              | EN 61000-4-6     |
|              | EN 61000-4-8     |
|              | EN 60945         |

The installation of these devices into the residential, commercial and light-industrial environments is allowed only in the case that special measures are taken in order to get the conformity to IEC-61000-6.3.



This device cannot be disposed of as a domestic waste but according to WEEE European Directive 2012/19/EU



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