

DATENBLATT

CPS-DIO-0808RL

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WÜNSCHEN SIE EIN INDIVIDUELLES ANGEBOT?**

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CONPROSYS Series
Digital I/O Module Source Type
CPS-DIO-0808RL



* Specifications, color and design of the products are subject to change without notice.

Features

Opto-coupler isolated input and Opto-coupler isolated output

CPS-DIO-0808RL, with response speed of 200 μ sec, has the opto-coupler isolated input 8channels (supporting current source output) and opto-coupler isolated output 8channels (current source type).

All of the input signals are usable as interrupt events

You can use all of the input signals as interrupt events and also disable or enable the interrupt in bit units and select the interrupt edge.

Digital filter to prevent input signals from carrying noise or a chattering

This product has a digital filter to prevent input signals from carrying noise or a chattering. All input terminals can be added a digital filter, and the setting can be performed by software.

Output circuits include zener diodes for surge voltage protection

Zener diodes are connected to the output circuits to protect against surge voltages.

The rated output is 35VDC, 100mA to the maximum per channel.

Compact design

Compact design, 25.2 (W)×94.7(D)×124.8 (H), features flexibility in installation.

Adaptable to a temperature range between -20 and +60°C

The product is capable of operating in the temperature between -20 and + 60°C. It can be installed in the various environments.

Installation easy with two pieces of terminal support and DIN rail

You can install and remove a terminal connector without a screwdriver so that it can shorten the time of the replacement. As the product can be not only mounted on DIN rail, but also is removable along the side rails, replacing is simple and easy as well.

Equipped with LED for an operation check

The product has LED for an operation check, which helps you visually confirm the communication status of each interface.

No electrolytic capacitor battery

No electrolytic capacitor is used. The Contec is creating the product with a longer life.

This product is a configurable module to provide digital input and output interface and operates along with the configurable type controller of CONPROSYS series.

CPS-DIO-0808RL has 8 channels of the opto-coupler isolated input (supporting current source output) and 8 channels of the opto-coupler isolated output (current source type).

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* Visit the CONTEC website to check the latest details in the document.

* The information in the data sheets is as of September, 2019.

Specification

Function specification

Item		CPS-DIO-0808RL
Input	Input type	Opto-coupler isolation input (Compatible with current source output) (positive logic) ^{*1}
	Isolation	Opto-coupler isolation
	Voltage resistance	1000V
	Input resistance	4.7k Ω
	Input ON current	2.0mA or more
	Input OFF current	0.16mA or less
	Interrupt	8 interrupt input signals are arranged into a single output of interrupt signal. An interrupt is generated at the falling edge (HIGH-to-LOW transition) or rising edge (LOW-to-HIGH transition). (setting can be done by software)
	Response time	Within 200 μ sec
Output	Number of input signal channels	8
	LED	D00 - D07 (Green)
	Output type	Opto-coupler isolation open collector output (Current source type) (positive logic) ^{*1}
	Isolation	Opto-coupler Isolation
	Voltage resistance	1000V
	Rating	Output voltage Output current
		35VDC (Max) 100mA (Max)
	Maximum voltage drop at ON	1.5V or less
	Response time	Within 200 μ sec
	Number of output signal channels	8
Connector	LED	D00 - D07 (Green)
	Connector	2 pieces 3.81mm pitch 10-pin terminal
	Applicable wire	AWG28 - 16
	LED	Status (Green, Red)
	External circuit power supply	12 - 24VDC ($\pm 10\%$)
	Built-in power supply	None ^{*2}
	Supply voltage	24VDC $\pm 10\%$
	Current consumption	0.1A (Max)
	Physical dimensions (mm)	25.2(W)×94.7(D)×124.8(H) (No projection included)
	Weight	200g
Installation method		Quick mounting on the 35mm DIN rail

^{*1} Data 0 corresponds to High level and Data 1 corresponds to Low level.

^{*2} To drive the digital circuit, external power is required separately.

Caution

The maximum number of stacking devices operating along with the stack type controller is 16 and the total current consumption of the devices should be less than 3.3A.

Installation Environment Requirements

Item	CPS- DIO-0808RL	
Operating ambient temperature	-20 - +60°C	
Operating ambient humidity	10 - 90%RH (No condensation)	
Non-operating ambient temperature	-20 - +60°C	
Non-operating ambient humidity	10 - 90%RH (No condensation)	
Floating dust particles	Not to be excessive	
Corrosive gases	None	
Line-noise resistance	Line noise	Signal Line /±1kV(IEC61000-4-4 Level 3, EN61000-4-4 Level 3)
	Static electricity resistance	Touch /±4kV(IEC61000-4-2 Level 2, EN61000-4-2 Level 2) Air /±8kV(IEC61000-4-2 Level 3, EN61000-4-2 Level 3)
Vibration resistance	Sweep resistance	10 - 57Hz *3 /semi-amplitude vibration 0.15mm, 57 - 150Hz/2.0G 40minutes each in X, Y, and Z directions (JIS C 60068-2-6-compliant, IEC60068-2-6-compliant)
Shock resistance		15G half-sine shock for 11ms in X, Y, and Z directions (JIS C 60068-2-27-compliant, IEC 60068-2-27 -compliant)
Standard		VCCI Class A, FCC Class A, CE Marking (EMC Directive Class A, RoHS Directive), UL

*3 When you use an optional power product 10-55Hz (See the manual of optional power product for details)

List of Option

Configurable Type Controller

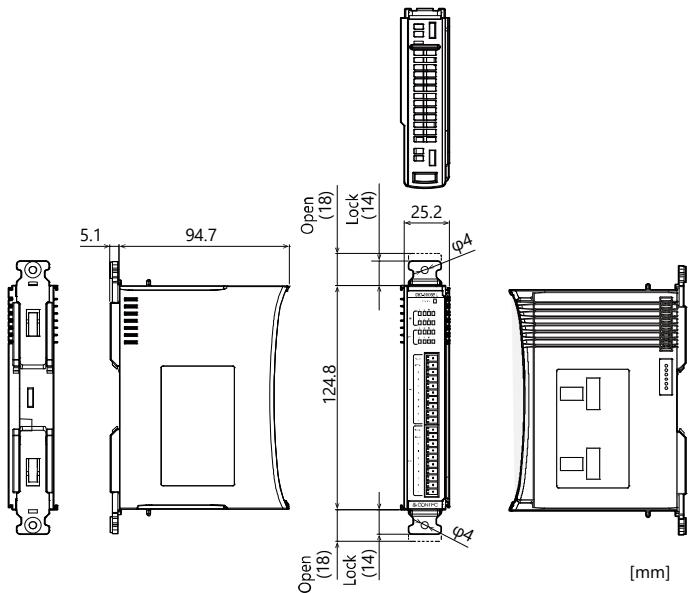
CPS-MCS341-DS1-111	Configurable Type CPU module
CPS-MCS341-DS1-131	Configurable Type CPU module + OPC UA server + MTConnect
CPS-MCS341G-DS1-130	Configurable Type CPU module +3GWAN
CPS-MCS341Q-DS1-131	Configurable Type CPU module +920MHz LAN
CPS-ECS341-1-011	Ether CAT Slave Module

DIN rail mounting power supply

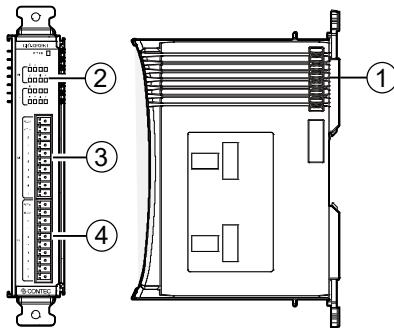
CPS-PWD-90AW24-01	DIN rail mounting power supply 90[w] (Input: 100 - 240VAC, output: 24VDC 3.8 A)
CPS-PWD-30AW24-01	DIN rail mounting power supply 30[w] Input: 100 - 240VAC, output: 24VDC 1.3 A)

* Visit the Contec website regarding information on the optional products

Physical Dimensions



Component Name



No.	Name	Function
1	Stack Bus	Used for power supply and communication with the configurable type module.
2	LED Indicator	This indicates status of the product.
3	Digital Input	This is a connector for digital input. (Use the 10-pin connector, included in the package)
4	Digital Output	This is a connector for digital output. (Use the 10-pin connector, included in the package)

Packing List

Product [CPS-DIO-0808RL] ...1

Product Guide ... 1

Warranty Certificate ...1

Serial Number Label ...1

10-pin Connector ...2