

CONPROSYS Series
Ether CAT Slave Module
CPS-ECS341-1-011



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

Features

Add configurable modules

This product allows you to install modules from a wide variety of types to suit the needs of the user.

* Up to 16 modules can be set and the total current consumption should be less than 3.3A.

No base board required

As the product requires no base board for installation, it helps add modules easily and smoothly.

Installed modules can be removed from any set positions on DIN rail.

Compact design

Compact design, 44.7(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.

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.

Packing List

- Product [CPS-ECS341-1-011] ...1
- End Cover...1 (attached to the product)
- Product Guide ... 1
- Warranty Certificate ...1
- Serial number Label ...1
- 3-pin Connector ...1

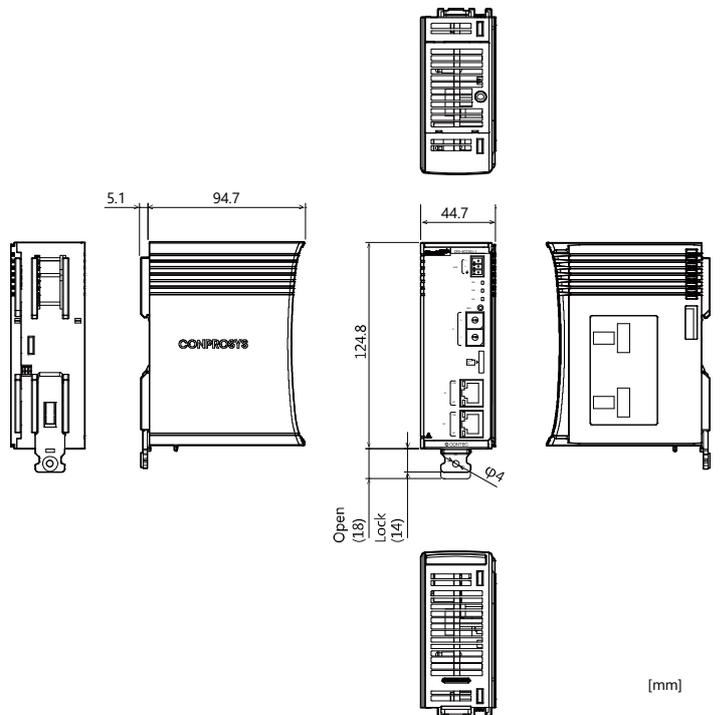
※ Use the supplied plastic DIN rail when connecting this product and a module on a desk top for system development or validation. If you use the supplied plastic DIN rail in the field, it cannot be covered by warranty. Therefore, when you set the product and module in the field, use the commercially available DIN rail.

This product is an EtherCAT slave controller with EtherCAT interface.

As you desire, add the configurable type modules of our CONPROSYS series.

- * The contents in this document are subject to change without notice.
- * Visit the CONTEC website to check the latest details in the document.
- * The information in the data sheets is as of July, 2022.

External Dimensions



List of Option

DIN rail mounting power supply

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

Configurable Device

- CPS-DIO-0808L with digital input/output (no built-in power supply)
- CPS-DIO-0808BL with digital input/output (built-in power supply)
- CPS-DIO-0808RL with digital input/output (current source)
- CPS-DI-16L with digital input (16ch, current sink)
- CPS-DI-16RL with digital input (16ch, current source)
- CPS-DO-16L with digital output (16ch, current sink)
- CPS-DO-16RL with digital output (16ch, current source)
- CPS-COM-1PC with RS-232C (contains 1port)
- CPS-COM-2PC with RS-232C (contains 2 ports)
- CPS-COM-1PD with RS-422A/485 (1channel)

- CPS-COM-2PD with RS-422A/485 (2 channels)
- CPS-AI-1608LI with analog input (voltage input 8 channels)
- CPS-AI-1608LI with analog input (current input 8 channels)
- CPS-AO-1804LI with analog output (current output 4 channels)
- CPS-AO-1804LI with analog output (voltage output 4 channels)
- CPS-CNT-32021 with counter input
- CPS-RRY-4PCC with Relay output
- CPS-SSI-4P with temperature sensor input

* Visit the Contec website for the latest optional products.

Specification

Function specification

| Item | | CPS- ECS341-1-011 |
|-----------------------------|----------------------------------------------|---------------------------------------------------------------------------------|
| EtherCAT | Transmission standard | 100BASE-TX |
| | The number of channels | IN 1 port, OUT 1 port |
| | Connector | RJ-45 connector |
| | LED | Act (Yellow), Link (Green) |
| Operating mode | | FreeRun mode |
| Address | | Auto increment addressing |
| Process data | | PDO mapping, SDO |
| Corresponding profile | | CoE, FoE |
| Maximum numbers of stacking | | 16 |
| LED | | Power (Green)/RUN (Green)/Error(Red) |
| Switch | | Reset SW, Rotary SW |
| Power supply *1 | Rated input voltage | 24VDC |
| | Input voltage range | 21.6 - 26.4VDC |
| | Power consumption | Controller alone: 24V 0.2A (Max) With module(s): 24V 3.5A (Max) |
| | Connector | 2-piece 3.5mm pitch 3-pin terminal (V+, V-, FG) |
| | Surge protection element V+ - V-, V- - FG | Interactive TVS diode Stand off voltage: ±30V, Peak pulse power: 400W(1msec) |
| Physical dimensions (mm) | | 44.7(W)×94.7(D)×124.8(H) (No projection included) |
| Weight | | 250g |
| Installation method | | Quick mounting on the 35mm DIN rail |

*1 Use power cable within 3meters.

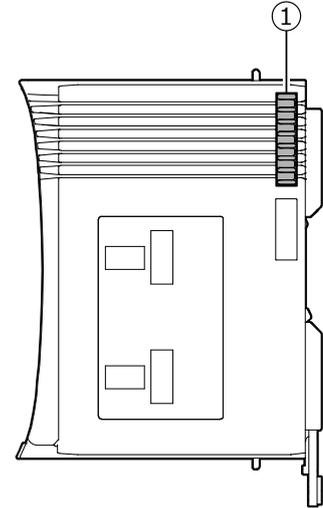
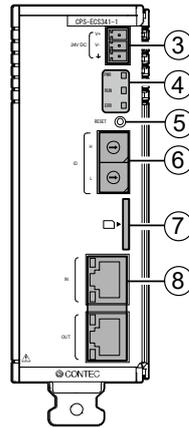
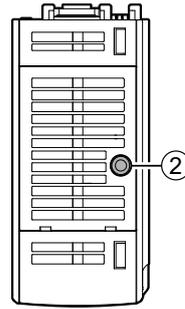
Installation Environment Requirements

| Item | | CPS-ECS341-1-011 |
|-----------------------------------|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 | AC Line/±2kV *2 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 C60068-2-6-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) |
| Grounding | | Class D grounding (previous class 3 grounding), SG-FG/ non-conduction |
| Standard | | VCCI Class A, FCC Class A, CE Marking (EMC Directive Class A, RoHS Directive), UKCA, UL/c-UL |

*2 When the optional power product is used.

*3 When the optional power product is used: 10 - 55Hz (See the manual of optional power product for details)

Component Name



| No. | Name | Function |
|-----|-----------------------|----------------------------------------------------------------------------|
| 1 | Stack Bus | Used for power supply and communication with the configurable type module. |
| 2 | Maintenance Connector | Do not use it. |
| 3 | Power Connector | Use the 3-pin connector, included in the package. |
| 4 | LED Indicator | This indicates status of the product. |
| 5 | Reset Switch | This resets the product. |
| 6 | Rotary Switch | Used for user setup. |
| 7 | micro SD Card Slot | Do not use this. (maintenance purpose only) |
| 8 | EtherCAT | This is a port for EtherCAT. |