

# CLICK I/O Module Specifications

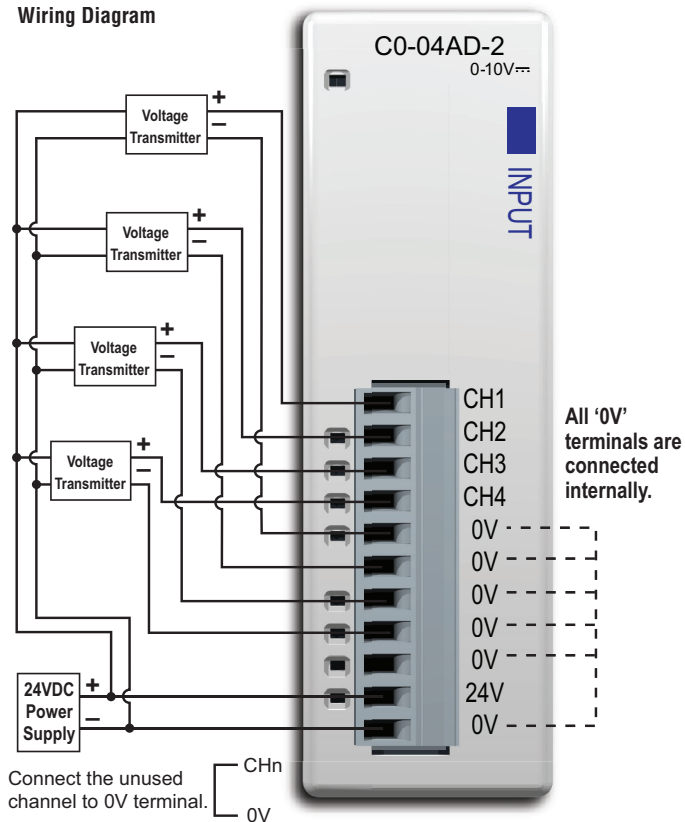
C0-04AD-2

\$89.00

## 4-Channel Analog Voltage Input Module

4-channel analog voltage input module, 13-bit resolution, range: 0-10V.  
External 24VDC power required, removable terminal block included.  
(replacement ADC p/n C0-8TB).

Wiring Diagram



### Input Specifications

|                                                        |                                                   |
|--------------------------------------------------------|---------------------------------------------------|
| <b>Inputs per Module</b>                               | 4                                                 |
| <b>Input Range</b>                                     | 0-10 V                                            |
| <b>Resolution</b>                                      | 13-bit, 1.22 mV per count                         |
| <b>Input Type</b>                                      | Single ended (one common)                         |
| <b>Maximum Continuous Overload</b>                     | ±100 VDC                                          |
| <b>Input Impedance</b>                                 | >150kΩ                                            |
| <b>Filter Characteristics</b>                          | Low pass, -3 dB at 500 Hz                         |
| <b>Sample Duration Time</b>                            | 6.25 ms                                           |
| <b>All Channel Update Rate</b>                         | 25 ms                                             |
| <b>Open Circuit Detection Time</b>                     | Zero reading within 100 ms                        |
| <b>Accuracy vs. Temperature</b>                        | ±75 PPM/°C maximum                                |
| <b>Maximum Inaccuracy</b>                              | 0.5% of range (including temperature changes)     |
| <b>Linearity Error (End to End)</b>                    | ±3 count maximum, monotonic with no missing codes |
| <b>Input Stability and Repeatability</b>               | ±2 count maximum                                  |
| <b>Full Scale Calibration Error (Including Offset)</b> | ±8 count maximum                                  |
| <b>Offset Calibration Error</b>                        | ±8 count maximum                                  |
| <b>Maximum Crosstalk at DC, 50/60 Hz</b>               | ±2 count maximum                                  |
| <b>Field to Logic Side Isolation</b>                   | 1800 VAC for 1 sec.                               |
| <b>External 24 VDC Power Required</b>                  | 65 mA                                             |
| <b>Base Power Required (24 VDC)</b>                    | 23 mA                                             |
| <b>Terminal Block Replacement</b>                      | ADC p/n C0-8TB                                    |
| <b>Weight</b>                                          | 2.9 oz (82 g)                                     |



**NOTE:** When using this module you must also use CLICK programming software and PLC firmware version V1.40 or later.

### ZIPLink Pre-Wired PLC Connection Cables and Modules for CLICK PLC

11-pin connector cable  
ZL-C0-CBL11 (0.5 m length)  
ZL-C0-CBL11-1 (1.0 m length)  
ZL-C0-CBL11-2 (2.0 m length)



ZL-RTB20 20-pin feed-through connector module

# Power Supplies

## Power Supplies

The CLICK PLC family offers two 24 VDC power supplies. They are identical except for the output current.

It is not mandatory to use one of these CLICK power supplies for the CLICK PLC system. You can use any other 24 VDC power supply that Automationdirect.com offers, including the PSP24-DC12-1 12 VDC to 24 VDC converter shown below.

### C0-00AC Power Supply

Limited auxiliary AC power supply allows you to power the 24 VDC CLICK C0 series PLCs with 100-240 VAC supply power. The 0.5A DC power supply is capable of controlling the PLC plus a limited configuration based on the power budget of each I/O module. The C0-00AC is a low-cost solution for applications requiring only minimal I/O and power consumption. This power supply will not support a fully-populated CLICK PLC system with all possible I/O module combinations.

### C0-01AC Power Supply

Expanded auxiliary AC power supply allows you to power the 24 VDC CLICK C0 series PLCs with 100-240 VAC supply power. The 1.3A DC power supply is capable of supporting a fully-populated CLICK PLC system with all possible I/O module combinations, with no concerns for exceeding the power budget.

### PSP24-DC12-1 DC-DC Converter

With this DC-DC converter you can operate the CLICK PLC with 12 VDC input power.



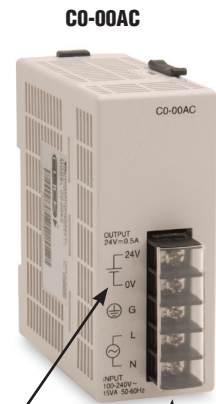
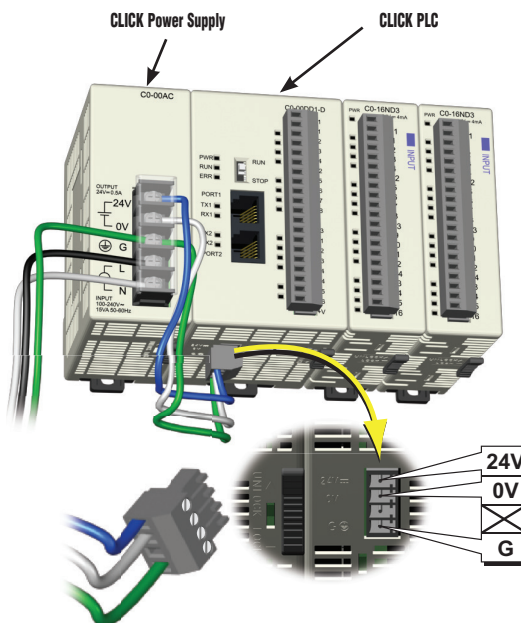
PSP24-DC12-1

| CLICK 24 VDC Power Supply Ratings |                |         |
|-----------------------------------|----------------|---------|
| Part Number                       | Output Current | Price   |
| C0-00AC                           | 0.5 A          | \$29.00 |
| C0-01AC                           | 1.3 A          | \$39.00 |

| C0-00AC Power Supply Specifications |                                  |
|-------------------------------------|----------------------------------|
| Input Voltage Range                 | 85-264 VAC                       |
| Input Frequency                     | 47-63 Hz                         |
| Input Current (typical)             | 0.3 A @ 100 VAC, 0.2 A @ 200 VAC |
| Inrush Current                      | 30 A                             |
| Output Voltage Range                | 23-25 VDC                        |
| Output Current                      | 0.5 A                            |
| Over Current Protection             | @ 0.65 A (automatic recovery)    |
| Weight                              | 5.3 oz (150g)                    |

| C0-01AC Power Supply Specifications |                                  |
|-------------------------------------|----------------------------------|
| Input Voltage Range                 | 85-264 VAC                       |
| Input Frequency                     | 47-63 Hz                         |
| Input Current (typical)             | 0.9 A @ 100 VAC, 0.6 A @ 200 VAC |
| Inrush Current                      | 30 A                             |
| Output Voltage Range                | 23-25 VDC                        |
| Output Current                      | 1.3 A                            |
| Over Current Protection             | @ 1.6 A (automatic recovery)     |
| Weight                              | 6.0 oz (170g)                    |

| PSP24-DC12-1 DC-DC Converter Specifications |                                 |
|---------------------------------------------|---------------------------------|
| Input Voltage Range                         | 9.5-18 VDC                      |
| Input Power (no load)                       | 1.0 W max.                      |
| Startup Voltage                             | 8.4 VDC                         |
| Undervoltage Shutdown                       | 7.6 VDC                         |
| Output Voltage Range                        | 24-28 VDC (adjustable)          |
| Output Current                              | 1.0 A                           |
| Short Circuit Protection                    | Current limited at 110% typical |
| Weight                                      | 7.5 oz (213g)                   |



24 VDC  
Output Power  
Terminals  
(for CLICK PLC, I/O or  
field device, etc.)

85-264 VAC  
Power Source  
Input Terminals



24 VDC  
Output Power  
Terminals  
(for CLICK PLC, I/O or  
field device, etc.)

85-264 VAC  
Power Source  
Input Terminals

24 VDC power is supplied to the PLC unit through wiring connected from the power supply output to the 4-pin 24 VDC input connector located on the bottom of the PLC unit.

# Power Budgeting

## Power Budgeting

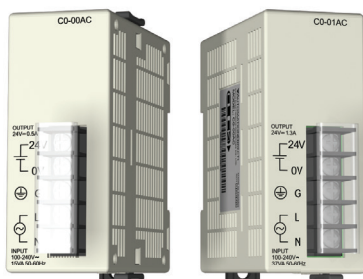
There are two areas to be considered when determining the power required to operate a CLICK PLC system. The first area is the power required by the CLICK PLC, along with the internal logic side power that the CPU provides to its own I/O and any connected I/O modules that are powered through the PLC expansion port; plus any device, such as a C-more Micro-Graphic panel, that is powered through one of the communications ports.

The second area is the power required by all externally connected I/O devices. This should be viewed as the field side power required. The field side power is dependent on the voltage used for a particular input or output device as it relates to the wired I/O point, and the calculated load rating of the connected device.

It is strongly recommended that the power source for the logic side be separate from the power source for the field side to help eliminate possible electrical noise.

Power budgeting requires the calculation of the total current the 24 VDC power source needs to provide to CLICK's logic side, and also a separate calculation of the total current required for all devices operating from the field side of the PLC system.

Refer to the Power Budgeting example shown on the following page. The table shows required current for a CLICK PLC, two I/O modules, and a C-more Micro. Use the total amperage values to select the properly sized power supply.



**CLICK 24 VDC Power Supply**  
CO-00AC or CO-01AC



**Other 24 VDC Power Supply**  
Example: PSP24-60S

## Power Consumption for CLICK PLC Units

| PLC Current Consumption (mA) |                                        |                                    |
|------------------------------|----------------------------------------|------------------------------------|
| Part Number                  | Power Budget<br>24 VDC<br>(logic side) | External<br>24 VDC<br>(field side) |
| Basic PLC Units              |                                        |                                    |
| CO-00DD1-D                   | 120                                    | 60                                 |
| CO-00DD2-D                   | 120                                    | 0                                  |
| CO-00DR-D                    |                                        |                                    |
| CO-00AR-D                    |                                        |                                    |
| Standard PLC Units           |                                        |                                    |
| CO-01DD1-D                   | 140                                    | 60                                 |
| CO-01DD2-D                   | 140                                    | 0                                  |
| CO-01DR-D                    |                                        |                                    |
| CO-01AR-D                    |                                        |                                    |
| Analog PLC Units             |                                        |                                    |
| CO-02DD1-D                   | 140                                    | 60                                 |
| CO-02DD2-D                   | 140                                    | 0                                  |
| CO-02DR-D                    |                                        |                                    |
| Ethernet Basic PLC Units     |                                        |                                    |
| CO-10DD1E-D                  | 120                                    | 60                                 |
| CO-10DD2E-D                  | 120                                    | 0                                  |
| CO-10DRE-D                   |                                        |                                    |
| CO-10ARE-D                   |                                        |                                    |
| Ethernet Standard PLC Units  |                                        |                                    |
| CO-11DD1E-D                  | 140                                    | 60                                 |
| CO-11DD2E-D                  | 140                                    | 0                                  |
| CO-11DRE-D                   |                                        |                                    |
| CO-11ARE-D                   |                                        |                                    |

| PLC Current Consumption (mA) |                                        |                                    |
|------------------------------|----------------------------------------|------------------------------------|
| Part Number                  | Power Budget<br>24 VDC<br>(logic side) | External<br>24 VDC<br>(field side) |
| Ethernet Analog PLC Units    |                                        |                                    |
| CO-12DD1E-D                  | 140                                    | 60                                 |
| CO-12DD2E-D                  |                                        | 0                                  |
| CO-12DRE-D                   | 160                                    |                                    |
| CO-12ARE-D                   |                                        |                                    |
| CO-12DD1E-1-D                | 140                                    | 60                                 |
| CO-12DD2E-1-D                |                                        | 0                                  |
| CO-12DRE-1-D                 | 160                                    |                                    |
| CO-12ARE-1-D                 |                                        |                                    |
| CO-12DD1E-2-D                | 140                                    | 60                                 |
| CO-12DD2E-2-D                |                                        | 0                                  |
| CO-12DRE-2-D                 | 160                                    |                                    |
| CO-12ARE-2-D                 |                                        | 140                                |

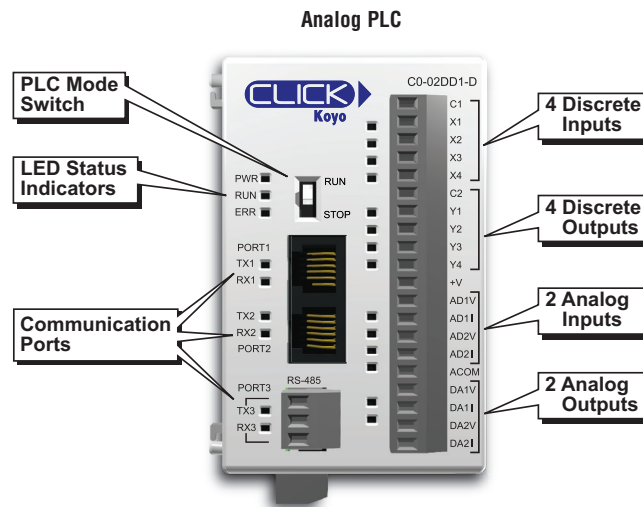
# Choosing a PLC Unit

## Analog PLC Units

The Analog CLICK PLC units are available with different combinations of DC in, DC sinking, sourcing or relay out, and analog in and out.

They also have an RS-485 port for Modbus and ASCII communications, and the battery backup feature which will retain the data in SRAM for 3 years (battery sold separately; part no. D2-BAT-1).

The table lists the part numbers showing the various I/O type combinations.



| Analog PLCs       |                      |                       |                                                                                             |                                                                                                     |                                |
|-------------------|----------------------|-----------------------|---------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|--------------------------------|
| Part Number       | Discrete Input Types | Discrete Output Types | Analog Input Types                                                                          | Analog Output Types                                                                                 | External Power                 |
| <b>C0-02DD1-D</b> | 4 DC (sink/source)   | 4 DC (sink)           | 2 channel; voltage (0-5 VDC) / current (4-20 mA); selectable separately per channel; 12 bit | 2 channel; voltage (0-5 VDC) / current sinking (4-20 mA); selectable separately per channel; 12 bit | 24 VDC (required for all PLCs) |
| <b>C0-02DD2-D</b> |                      | 4 DC (source)         |                                                                                             |                                                                                                     |                                |
| <b>C0-02DR-D</b>  |                      | 4 relay               |                                                                                             |                                                                                                     |                                |

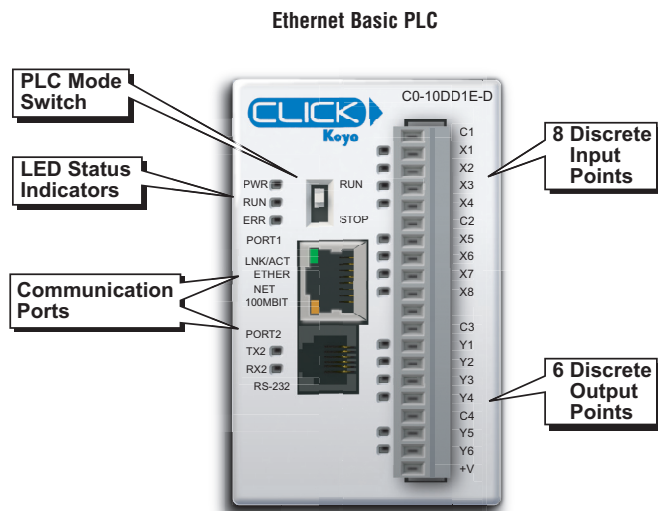
## Ethernet Basic and Standard PLC Units

CLICK Ethernet Basic and Standard PLC units have one built-in Ethernet communications port and one standard RS-232 serial communications port. Additionally, Ethernet Standard PLC Units have an RS-485 port for Modbus RTU and ASCII communication.

The Ethernet Basic and Standard CLICK PLC units are available with different combinations of built-in I/O types (i.e. DC input/DC output, DC input/relay output, and AC input/relay output). With the 14 built-in I/O points (8 inputs/6 outputs), the PLC Units can be used as a ready-to-go PLC control system without any additional I/O modules. The PLC Unit only requires a 24 VDC power supply.

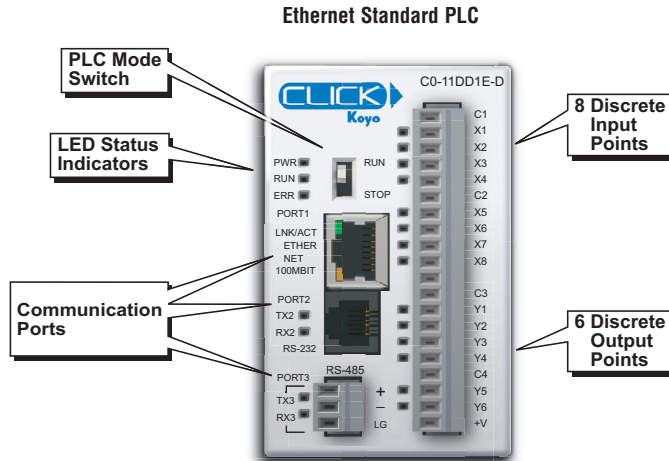
The table on the right lists the PLC unit part numbers and the various I/O type combinations.

All Ethernet PLC Units have a battery backup feature which will retain the data in SRAM for 3 years (battery sold separately; part no. D2-BAT-1).



| Ethernet Basic PLCs |                     |                      |                                  |
|---------------------|---------------------|----------------------|----------------------------------|
| Part Number         | Discrete Input Type | Discrete Output Type | External Power                   |
| C0-10DD1E-D         | 8 DC (sink/source)  | 6 DC (sink)          | 24VDC<br>(required for all PLCs) |
| C0-10DD2E-D         |                     | 6 DC (source)        |                                  |
| C0-10DRE-D          |                     | 6 Relay              |                                  |
| C0-10ARE-D          | 8 AC                |                      |                                  |

# Choosing a PLC Unit



| Ethernet Standard PLCs |                     |                      |                                   |
|------------------------|---------------------|----------------------|-----------------------------------|
| Part Number            | Discrete Input Type | Discrete Output Type | External Power                    |
| C0-11DD1E-D            | 8 DC (sink/source)  | 6 DC (sink)          | 24V DC<br>(required for all PLCs) |
| C0-11DD2E-D            |                     | 6 DC (source)        |                                   |
| C0-11DRE-D             |                     | 6 Relay              |                                   |
| C0-11ARE-D             | 8 AC                |                      |                                   |

## Ethernet Analog PLC Units

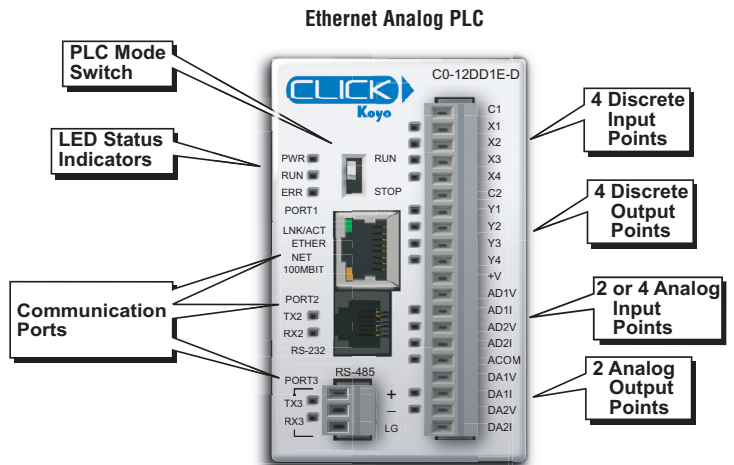
CLICK Ethernet Analog PLC units have one built-in Ethernet communications port, one standard RS-232 serial communications port and an RS-485 port for Modbus RTU and ASCII communication.

The Ethernet Analog CLICK PLC units are available with different combinations of built-in discrete and analog I/O types i.e. DC input/DC output, DC input/relay output, and AC input/relay output, as well as built-in

analog inputs/outputs for both current and voltage. With the built-in I/O points, the PLC Units can be used as a ready-to-go PLC control system without any additional I/O modules. The PLC Unit only requires a 24 VDC power supply.

The table below lists the PLC Unit part numbers and the various I/O type combinations.

All Ethernet PLC Units have a battery backup feature which will retain the data in SRAM for 3 years (battery sold separately; part no. D2-BAT-1).



| Ethernet Analog PLCs |                       |                      |                                                                                                           |                                                                                                                   |                                   |
|----------------------|-----------------------|----------------------|-----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|-----------------------------------|
| Part Number          | Discrete Input Type   | Discrete Output Type | Analog Input Types                                                                                        | Analog Output Types                                                                                               | External Power                    |
| C0-12DD1E-D          | 4 DC (sink/source)    | 4 DC (sink)          | 2 channel;<br>voltage (0–5 VDC) /<br>current (4–20 mA);<br>selectable separately per chan-<br>nel, 12 bit | 2 channel;<br>voltage (0–5 VDC) /<br>current sinking (4–20 mA);<br>selectable separately per chan-<br>nel, 12 bit | 24V DC<br>(required for all PLCs) |
| C0-12DD2E-D          |                       | 4 DC (source)        |                                                                                                           |                                                                                                                   |                                   |
| C0-12DRE-D           |                       | 4 Relay              |                                                                                                           |                                                                                                                   |                                   |
| C0-12ARE-D           | 4 AC                  |                      |                                                                                                           |                                                                                                                   |                                   |
| C0-12DD1E-1-D        | 4 DC<br>(sink/source) | 4 DC (sink)          | 4 channel;<br>current (0–20 mA),<br>12 bit                                                                | 2 channel;<br>current sourcing (4–20 mA),<br>12 bit                                                               |                                   |
| C0-12DD2E-1-D        |                       | 4 DC (source)        |                                                                                                           |                                                                                                                   |                                   |
| C0-12DRE-1-D         |                       | 4 Relay              |                                                                                                           |                                                                                                                   |                                   |
| C0-12ARE-1-D         | 4 AC                  |                      |                                                                                                           |                                                                                                                   |                                   |
| C0-12DD1E-2-D        | 4 DC<br>(sink/source) | 4 DC (sink)          | 4 channel;<br>voltage (0–10 VDC), 12 bit                                                                  | 2 channel;<br>voltage (0–10 VDC),<br>12 bit                                                                       |                                   |
| C0-12DD2E-2-D        |                       | 4 DC (source)        |                                                                                                           |                                                                                                                   |                                   |
| C0-12DRE-2-D         |                       | 4 Relay              |                                                                                                           |                                                                                                                   |                                   |
| C0-12ARE-2-D         | 4 AC                  |                      |                                                                                                           |                                                                                                                   |                                   |

# Choosing Expansion I/O Modules

## I/O Modules

A variety of discrete, combo, and analog I/O modules are available for the CLICK PLC system. Up to eight I/O modules can be connected to a CLICK PLC unit to expand the system I/O count and meet the needs of a specific application. Complete I/O module specifications and wiring diagrams can be found later in this section.

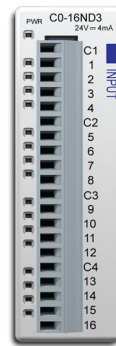
## Discrete Input Modules



CO-08ND3



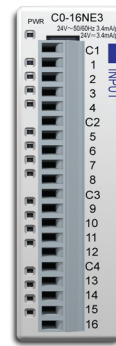
CO-08ND3-1



CO-16ND3



CO-08NE3



CO-16NE3



CO-08NA

| Discrete Input Modules |                             |                   |                    |
|------------------------|-----------------------------|-------------------|--------------------|
| Part Number            | I/O Type/<br>Number/Commons | Sink or<br>Source | Voltage<br>Ratings |
| <b>CO-08ND3</b>        | DC/8/2                      | Sink or Source    | 12-24 VDC          |
| <b>CO-08ND3-1</b>      | DC/8/2                      | Sink or Source    | 3.3-5 VDC          |
| <b>CO-16ND3</b>        | DC/16/4                     | Sink or Source    | 24 VDC             |
| <b>CO-08NE3</b>        | AC/DC / 8/2                 | Sink or Source    | 24 VAC/VDC         |
| <b>CO-16NE3</b>        | AC/DC / 16/4                | Sink or Source    | 24 VAC/VDC         |
| <b>CO-08NA</b>         | AC/8/2                      | N/A               | 100-120 VAC        |

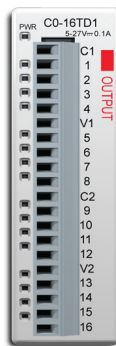
## Discrete Output Modules



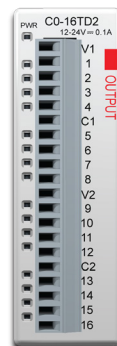
CO-08TD1



CO-08TD2



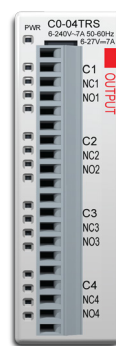
CO-16TD1



CO-16TD2



CO-08TA



CO-04TRS



CO-08TR

| Discrete Output Modules |                              |                   |                                 |
|-------------------------|------------------------------|-------------------|---------------------------------|
| Part Number             | I/O Type/<br>Number/ Commons | Sink or<br>Source | Voltage/Current<br>Ratings      |
| <b>CO-08TD1</b>         | DC/8/2                       | Sink              | 3.3-27 VDC, 0.3 A               |
| <b>CO-08TD2</b>         | DC/8/1                       | Source            | 12-24 VDC, 0.3 A                |
| <b>CO-16TD1</b>         | DC/16/2                      | Sink              | 5-27 VDC, 0.1 A                 |
| <b>CO-16TD2</b>         | DC/16/2                      | Source            | 12-24 VDC, 0.1 A                |
| <b>CO-08TA</b>          | AC/8/2                       | N/A               | 17-240 VAC, 0.3 A               |
| <b>CO-04TRS</b>         | Relay/4/4                    | N/A               | 6-27 VDC, 7 A<br>6-240 VAC, 7 A |
| <b>CO-08TR</b>          | Relay/8/2                    | N/A               | 6-27 VDC, 1 A<br>6-240 VAC, 1 A |



# Wiring System for CLICK PLCs

## Wiring Solutions using the ZIPLink Wiring System

ZIPLinks eliminate the normally tedious process of wiring between devices by utilizing prewired cables and DIN rail mount connector modules. It's as simple as plugging in a cable connector at either end or terminating wires at only one end. Prewired cables keep installation clean and efficient, using half the space at a fraction of the cost of standard terminal blocks.

ZIPLinks are available in a variety of styles to suit your needs, including feedthrough connector module. ZIPLinks are available for all Basic, Standard and Ethernet CLICK PLC units and most discrete and analog I/O modules. Pre-printed I/O-specific adhesive label strips for quick marking of ZIPLink modules are provided with ZIPLink cables.



### Solution 1: CLICK PLC and I/O Modules to ZIPLink Connector Modules

When looking for quick and easy I/O-to-field termination, a ZIPLink connector module used in conjunction with a prewired ZIPLink cable, consisting of an I/O terminal block at one end and a multi-pin connector at the other end, is the best solution.

Use the "CLICK PLC Unit ZIPLink Selector" table and CLICK I/O ZIPLink selector tables located in this section:

1. Locate your PLC or I/O module.
2. Select a ZIPLink Module.
3. Select a corresponding ZIPLink Cable.

### Solution 2: CLICK PLC and I/O Modules to 3rd Party Devices

When wanting to connect I/O to another device within close proximity of the I/O modules, no extra terminal blocks are necessary when using the ZIPLink Pigtail Cables. ZIPLink Pigtail Cables are prewired to an I/O terminal block with color-coded pigtail with soldered-tip wires on the other end.

Use the I/O Modules to 3rd Party Devices selector tables located in the ZIPLink section:

1. Locate your PLC or I/O module.
2. Select a ZIPLink Pigtail Cable that is compatible with your 3rd party device.



### Solution 3: GS Series and DuraPulse Drives Communication Cables

Need to communicate via Modbus RTU to a drive or a network of drives?

ZIPLink cables are available in a wide range of configurations for connecting to PLCs and SureServo, SureStep, Stellar Soft Starter and AC drives. Add a ZIPLink communications module to quickly and easily set up a multi-device network.

Use the Drives Communication selector tables located in the ZIPLink section:

1. Locate your Drive and type of communications.
2. Select a ZIPLink cable and other associated hardware.



### Solution 4: Serial Communications Cables

ZIPLink offers communications cables for use with CLICK PLCs that can also be used with other communications devices. Connections include a 6-pin RJ12 connector which can be used in conjunction with the RJ12 Feedthrough module.

Use the Serial Communications Cables selector table located in the ZIPLink section:

1. Locate your connector type
2. Select a cable.





# Wiring System for CLICK PLCs

| CLICK PLC ZIPLink Selector |                                                                  |             |                 |                |
|----------------------------|------------------------------------------------------------------|-------------|-----------------|----------------|
| PLC                        |                                                                  | ZIPLink     |                 |                |
| PLC Unit                   | # of Terms                                                       | Component   | Module Part No. | Cable Part No. |
| CO-00DD1-D                 | 20                                                               | Feedthrough | ZL-RTB20        | ZL-CO-CBL20 *  |
| CO-00DD2-D                 |                                                                  |             |                 |                |
| CO-00DR-D                  |                                                                  |             |                 |                |
| CO-00AR-D                  |                                                                  |             |                 |                |
| CO-01DD1-D                 |                                                                  |             |                 |                |
| CO-01DD2-D                 |                                                                  |             |                 |                |
| CO-01DR-D                  |                                                                  |             |                 |                |
| CO-01AR-D                  |                                                                  |             |                 |                |
| CO-02DD1-D                 | No <b>ZIPL</b> inks are available for Analog PLC units.          |             |                 |                |
| CO-02DD2-D                 |                                                                  |             |                 |                |
| CO-02DR-D                  |                                                                  |             |                 |                |
| CO-10DD1E-D                | 20                                                               | Feedthrough | ZL-RTB20        | ZL-CO-CBL20 *  |
| CO-10DD2E-D                |                                                                  |             |                 |                |
| CO-10DRE-D                 |                                                                  |             |                 |                |
| CO-10ARE-D                 |                                                                  |             |                 |                |
| CO-11DD1E-D                |                                                                  |             |                 |                |
| CO-11DD2E-D                |                                                                  |             |                 |                |
| CO-11DRE-D                 |                                                                  |             |                 |                |
| CO-11ARE-D                 | No <b>ZIPL</b> inks are available for Ethernet Analog PLC units. |             |                 |                |
| CO-12DD1E-D                |                                                                  |             |                 |                |
| CO-12DD2E-D                |                                                                  |             |                 |                |
| CO-12DRE-D                 |                                                                  |             |                 |                |
| CO-12ARE-D                 |                                                                  |             |                 |                |
| CO-12DD1E-1-D              |                                                                  |             |                 |                |
| CO-12DD2E-1-D              |                                                                  |             |                 |                |
| CO-12DRE-1-D               |                                                                  |             |                 |                |
| CO-12ARE-1-D               |                                                                  |             |                 |                |
| CO-12DD1E-2-D              |                                                                  |             |                 |                |
| CO-12DD2E-2-D              |                                                                  |             |                 |                |
| CO-12DRE-2-D               |                                                                  |             |                 |                |
| CO-12ARE-2-D               |                                                                  |             |                 |                |

<sup>1</sup> Note: The CO-04TRS relay output is derated not to exceed 2A per point maximum when used with the ZIPLink wiring system.

<sup>2</sup> Note: Fuses (5 x 20 mm) are not included. See Edison Electronic Fuse section for (5 x 20 mm) fuse. S500 and GMA electronic circuit protection for fast-acting maximum protection. S506 and GMC electronic circuit protection for time-delay performance. Ideal for inductive circuits.

To ensure proper operation, do not exceed the voltage and current rating of ZIPLink module. ZL-RFU20 = 2A per circuit.

| CLICK PLC Discrete Input Module ZIPLink Selector |            |             |                 |                |
|--------------------------------------------------|------------|-------------|-----------------|----------------|
| I/O Module                                       |            | ZIPLink     |                 |                |
| Input Module                                     | # of Terms | Component   | Module Part No. | Cable Part No. |
| CO-08ND3                                         | 11         | Feedthrough | ZL-RTB20        | ZL-CO-CBL11 *  |
| CO-08ND3-1                                       |            |             |                 |                |
| CO-08NE3                                         |            |             |                 |                |
| CO-08NA                                          |            |             |                 |                |
| CO-16ND3                                         | 20         | Feedthrough | ZL-RTB20        | ZL-CO-CBL20 *  |
|                                                  |            | Sensor      | ZL-LTB16-24     |                |
| CO-16NE3                                         | 20         | Feedthrough | ZL-RTB20        |                |
|                                                  |            | Sensor      | ZL-LTB16-24     |                |

| CLICK PLC Discrete Output Module ZIPLink Selector |            |                  |                       |                |
|---------------------------------------------------|------------|------------------|-----------------------|----------------|
| I/O Module                                        |            | ZIPLink          |                       |                |
| Output Module                                     | # of Terms | Component        | Module Part No.       | Cable Part No. |
| CO-08TD1                                          | 11         | Feedthrough      | ZL-RTB20              | ZL-CO-CBL11 *  |
| CO-08TD2                                          |            |                  |                       |                |
| CO-08TR                                           |            |                  |                       |                |
| CO-08TA                                           |            |                  |                       |                |
| CO-16TD1                                          | 20         | Feedthrough      | ZL-RTB20              | ZL-CO-CBL20*   |
|                                                   |            | Fuse             | ZL-RFU20 <sup>2</sup> |                |
|                                                   |            | Relay (sinking)  | ZL-RRL16-24-1         |                |
| CO-16TD2                                          | 20         | Feedthrough      | ZL-RTB20              | ZL-CO-CBL20 *  |
|                                                   |            | Fuse             | ZL-RFU20 <sup>2</sup> |                |
|                                                   |            | Relay (sourcing) | ZL-RRL16-24-2         |                |
| CO-04TRS <sup>1</sup>                             | 20         | Feedthrough      | ZL-RTB20              | ZL-CO-CBL20 *  |

| CLICK PLC Combo I/O Module ZIPLink Selector |            |             |                 |                |
|---------------------------------------------|------------|-------------|-----------------|----------------|
| I/O Module                                  |            | ZIPLink     |                 |                |
| Combo Module                                | # of Terms | Component   | Module Part No. | Cable Part No. |
| CO-16CDD1                                   | 20         | Feedthrough | ZL-RTB20        | ZL-CO-CBL20 *  |
| CO-16CDD2                                   |            |             |                 |                |
| CO-08CDR                                    | 11         | Feedthrough | ZL-RTB20        | ZL-CO-CBL11 *  |

| CLICK PLC Analog I/O Module ZIPLink Selector |            |                                                             |                 |                |
|----------------------------------------------|------------|-------------------------------------------------------------|-----------------|----------------|
| I/O Module                                   |            | ZIPLink                                                     |                 |                |
| Analog Module                                | # of Terms | Component                                                   | Module Part No. | Cable Part No. |
| CO-04AD-1                                    | 11         | Feedthrough                                                 | ZL-RTB20        | ZL-CO-CBL11 *  |
| CO-04AD-2                                    | 11         | Feedthrough                                                 | ZL-RTB20        | ZL-CO-CBL11 *  |
| CO-04RTD                                     | 20         | No ZIPLinks are available for RTD and thermocouple modules. |                 |                |
| CO-04THM                                     | 11         |                                                             |                 |                |
| CO-04DA-1                                    | 11         | Feedthrough                                                 | ZL-RTB20        | ZL-CO-CBL11 *  |
| CO-04DA-2                                    | 11         | Feedthrough                                                 | ZL-RTB20        | ZL-CO-CBL11 *  |
| CO-4AD2DA-1                                  | 20         | Feedthrough                                                 | ZL-RTB20        | ZL-CO-CBL20 *  |
| CO-4AD2DA-2                                  | 20         | Feedthrough                                                 | ZL-RTB20        | ZL-CO-CBL20 *  |

\* Select the cable length by replacing the \* with: Blank = 0.5m, -1 = 1.0m, or -2 = 2.0m.