Please read and understand the information in this insert prior to installation, operation, or servicing this equipment. Please refer to the CLICK User Manual (CO-USER-M) for more information (https://cdn.automationdirect.com/static/manuals/couserm/couserm.html).

**General Safety**

In this Insert Sheet, the safety instruction levels are classified into “**WARNING**” and “**CAUTION**”

**WARNING**
- Assumes that incorrect handling may cause hazardous conditions, resulting in severe injury or death.
- When using this product, connect it to the Click CPU unit.
- Ensure all wiring has strain reliefs in order to avoid damage to insulation that might result in electric shock or fire.
- Ensure secondary external power circuits are only live after PLC control program is started; otherwise a malfunction or output failure may result in a hazardous accident.
- Don’t block the radiator holes. This may cause an increase of internal temperature resulting in equipment damage or fire.
- Ensure that the equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be invalidated.

**CAUTION**
- Assumes that incorrect handling may cause hazardous conditions, resulting in medium or slight injury, or may cause equipment damage.
- To avoid electric shock or malfunctions which might result in an accident, don’t touch any terminal while the PLC power is on.
- Don’t put metals (e.g. Screwdriver) into radiator holes, drop trash, or foreign objects (e.g. wire cut-offs) into the device, in order to avoid electric shock or equipment damage.
- If the equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be invalidated.

**General Specifications**

- **Operating Temperature**: 32° to 131°F (0° to 55°C)
- **Storage Temperature**: -4° to 158°F (-20° to 70°C)
- **Relative Humidity**: 30% to 95% (non-condensing)
- **Environmental Air**: No corrosive gases permitted (Level 2 environmental pollution)*
- **Altitude**: Up to 2000m
- **Agency Approvals**: UL61010-2-201, CE (EN61131-2:2007)*
  - RoHS (2011/65/EU) and amendment (EU) 2015/863

* Keep out iron powder, moisture, oil or chemicals. Isolate from shock or vibration, direct sunlight, and from electric or ferromagnetic field.

* Meets EMC and Safety requirements. See the Declaration of Compliance for details.

**Output Specifications**

- **Outputs per Module**: 4
- **AC Frequency**: 47–63 Hz
- **Peak Voltage**: 24VDC, 264VAC
- **Operating Voltage Range**: 6–24 VDC, 6–240 VAC
- **Output type**: 4 Relays, FORM A (SPST)
- **Minimum Load Current**: 100mA @ 5VDC
- **Maximum Current**: 10A / point
- **Maximum Inrush Current**: 16A for 10ms
- **OFF to ON Response**: < 15ms
- **ON to OFF Response**: < 15ms
- **Status Indicators**: Logic Side (4 points, red LED)
  - Power Indicator (green LED)
- **Commons**: 4 (1 point / common)
- **Bus Power Required (24V)**: Max. 120mA (all points ON)
### Installation and Mounting

1. **Safety Installation, Wiring or Handling**
   - Discharge static electricity before installation or wiring in order to avoid electrical equipment damage.

2. **Preface**
   - CLICK C0-04TRS-10 is supported by CLICK Programming software Ver 2.60 or higher.

3. **Compliant Crimp-type terminal**
   - I/O terminals

4. **The following crimping ferrules are recommended for 24VDC terminal and I/O terminals of CPU and Expansion I/O.**

<table>
<thead>
<tr>
<th>Company</th>
<th>Series</th>
<th>Model No.</th>
<th>Compliant Wire</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zoller+Fröhlich</td>
<td>Twin Ferrules</td>
<td>V30AE001134</td>
<td><em>0.5 mm² (20AWG)</em></td>
</tr>
</tbody>
</table>

*Rated torque is 0.5 N·m. Take care not to contact adjacent terminal.

5. **Safety Standard**
   - To comply with safety standards, please observe and use the following.
   - Please use SELV (as defined by UL61010-2-201) and Limited Energy (as defined by UL61010-1, 9.4)
   - Please ensure basic isolation is provided between each relay block.

In order to comply with IEC/UL 61010-2-201 if the output is connected to a circuit lower than 30V, please provide an external isolation before the relay output terminals. Basic isolation requires an air separation of at least 1.5 mm, a creepage distance of at least 2.5 mm, and a withstand voltage of 1500V rms.

### Installing Expansion I/O Modules:

- Remove protective cover over bus port.
- Push the LOCK slide (top and bottom of modules) to “UNLOCK”.
- Align module pins and tabs (attachment of modules) into adjacent slots and firmly push together.
- Push the LOCK slides to “LOCK” to lock modules rigidly together.

Modules easily connect to each other.

### Safety Installation

Please heed the following instructions when installing:

- Mount the CLICK PLC unit horizontally to provide proper ventilation.
- Do not mount the CLICK PLC unit upside down, on a horizontal surface, or in a vertical arrangement.
- There is a minimum clearance requirement of 2in. (51mm) from all sides of the cabinet and the equipment.
- There is a minimum clearance requirement of 3in. (76mm) from the wiring ducts and the equipment.
- Please use this product in a metal enclosure/cabinet.

### Enclosures

It is important to select the appropriate enclosure to ensure safe and proper operation of your CLICK PLC system. Control applications vary and yours may require additional considerations. At a minimum your enclosure should include:

- Conformance to electrical standards
- Protection from the elements in an industrial environment
- Common ground reference
- Maintenance of specified ambient temperature
- Access to equipment
- Security or restricted access
- Sufficient space for proper installation and maintenance of equipment

**CAUTION**

- When installing modules and CPU on DIN rails, always use end brackets on both ends of assembly.
- You should use 35mm width DIN Rails.
- You should use M4 size screws when you surface mount.
- You should tighten the screws with a spring washer and a small round washer and torque (0.5 to 0.6 N·m).

Do not operate without first installing safety cover over power supply leads.

### Additional Help and Support

- For additional technical support or questions, call our Technical Support team @ 1-800-633-0405 or 770-844-4200
CO-04TRS-10 CLICK Expansion I/O Module

Equivalent Circuit Diagram:

Wiring Diagram:

Dimensional Drawings: