Interfaces and Pre-assembled cables for Rockwell Compact Logix

Let’s connect.

Weidmüller – Your partner in Industrial Connectivity

As experienced experts, we support our customers and partners with innovative solutions in the field of industrial communication, with a range of components and services to address the technical challenges of tomorrow. We are therefore continually developing innovative, cost-effective and useful products for our individual needs. Together, we want to enable you to set standards in Industrial Connectivity.

Universal solutions for PLC input/output cards

With a range of options and many years of experience, we can meet the needs of individual users. The universal cabling system for PLCs is provided as an effective alternative to end-to-end cabling designs. Weidmüller offers a wide range of interfaces for Rockwell Compact Logix:

• The interfaces are used as an interconnection element between the control and the process, and are supplied with tension clamp or screw connection. Those interfaces, with a compact design, provide different functions such as LEDs, fuses, disconnectors or relays.

• The pre-assembled cables are supplied with the manufacturer’s own connector at one end and are available in different lengths.

Product Finder and automatic selection guides:

To help you choose the right products for your application, Weidmüller offers this Product finder with a selection table which can be found on the following pages.

In addition, on our website, we have an automatic selection guide, using intuitive software that can help you to choose the appropriate interface cable for your input/output cards. This can be found at www.weidmueller.com.

Main advantages

Wide range of pre-assembled interfaces

This range pre-assembled interfaces for digital and analogue signals. The interfaces are designed for Rockwell Compact Logix and the manufacturers for even more user-friendly interfaces. With a large variety of features:

• LED indications
• Fuses
• Disconnector
• Test points

Wide range of relay isolated interfaces

Weidmüller offers a selection of 8 and 12 and 16 relay interfaces which allow the capability of starting digital signals and electrical devices. Both offer a high-quality interface:

• 8 one-rank or separated (BS-relay) with additional terminals for control
• 12 or 16 rank with contact
• Optional contact
• 1 or 2 CO contacts

Wide range of universal interfaces

The range universal interfaces are designed for the control and the process. Weidmüller offers a wide range of interfaces and SMD-connector for industrial applications. Furthermore, 16 different relay signals for digital signals and SMD-connector for analogue signals:

• Switch in coil and contact
• Fuse in contact
• 1 or 2 CO contacts

Guaranteed connection:

The original PLC connector is on one end of the cable and standard connectors are on the other end:

• Ribbon cable with fixing housing for digital signals and SUB-D connector for analogue signals. Available in different lengths.

Wide range of passive interfaces

The range passive interfaces for digital and analogue signals includes passive input/output interfaces for sensors and actuators. The interfaces are available in screw or tension clamp connection and the sensors/actuators can be connected with 1, 2 or 3 wires, whichever is needed. You can also choose from a large variety of functions:

• LED indication
• Fuse
• Disconnectors
• Test points

We cannot guarantee that there are no mistakes in the publications or software provided by us to the customer for the purpose of making orders. We try our best to quickly correct errors in our printed media.

All orders are based on our general terms of delivery, which can be reviewed on the websites of our group companies where you place your order. In addition, we can also send the general terms of delivery to you.

Available in versions with 8-12 and 16 relays, the RSM family offers the possibility of insulating digital signals in input and output cards. Options include our compact format (6mm relays) or standard (RCL relay), with additional features including:

• Switch in coil and contact
• Fuse in contact
• 1 or 2 CO contacts

Guaranteed connection:

The original PLC connector is on one end of the cable and standard connectors are on the other end:

• Ribbon cable with fixing housing for digital signals and SUB-D connector for analogue signals. Available in different lengths.
**Interfaces and Pre-assembled cables for ROCKWELL – COMPACT LOGIX**

The following selection tables help you to choose the pre-assembled cables and interfaces.

1. **Selection table for digital input/output cards with direct wiring interfaces**

<table>
<thead>
<tr>
<th>IO Type</th>
<th>Channels</th>
<th>Connection</th>
<th>Interface</th>
</tr>
</thead>
<tbody>
<tr>
<td>1769-IQ32</td>
<td>32 DI, Negative logic</td>
<td>2 wires</td>
<td>without LED</td>
</tr>
<tr>
<td>1769-IF4I</td>
<td>4 AI, current applications</td>
<td>2 wires</td>
<td>without LED</td>
</tr>
<tr>
<td>1769-OW16</td>
<td>16 DO</td>
<td>2 wires</td>
<td>without LED</td>
</tr>
<tr>
<td>1769-OB16P</td>
<td>16 DO</td>
<td>2 wires</td>
<td>without LED</td>
</tr>
</tbody>
</table>

2. **Selection table for analog input cards with direct wiring interfaces**

<table>
<thead>
<tr>
<th>IO Type</th>
<th>Channels</th>
<th>Connection</th>
<th>Interface</th>
</tr>
</thead>
<tbody>
<tr>
<td>1769-OA16</td>
<td>16 DO</td>
<td>2 wires</td>
<td>without LED</td>
</tr>
<tr>
<td>1769-OW16</td>
<td>16 DO</td>
<td>2 wires</td>
<td>without LED</td>
</tr>
</tbody>
</table>

3. **Selection table for digital output cards with isolated interfaces**

<table>
<thead>
<tr>
<th>IO Type</th>
<th>Channels</th>
<th>Connection</th>
<th>Interface</th>
</tr>
</thead>
<tbody>
<tr>
<td>Relay 1CO 16A</td>
<td>1 Changeover</td>
<td>20-pole ribbon</td>
<td>without SWITCH</td>
</tr>
<tr>
<td>Relay 2CO 8A</td>
<td>2 Changeovers</td>
<td>20-pole ribbon</td>
<td>without SWITCH</td>
</tr>
</tbody>
</table>

4. **Selection table for analog output cards with isolated interfaces**

<table>
<thead>
<tr>
<th>IO Type</th>
<th>Channels</th>
<th>Connection</th>
<th>Interface</th>
</tr>
</thead>
<tbody>
<tr>
<td>Slim relay 1CO 6A</td>
<td>1 Changeover</td>
<td>20-pole ribbon</td>
<td>without SWITCH</td>
</tr>
<tr>
<td>Slim relay 1CO 6A</td>
<td>1 Changeover</td>
<td>20-pole ribbon</td>
<td>without SWITCH</td>
</tr>
</tbody>
</table>

5. **Selecting the correct connector**

   - 20-pole ribbon connectors:用于20芯电缆的连接。
   - 37-pole Sub-D connectors:用于37芯电缆的连接。
   - 20-pole Sub-D connectors:用于20芯电缆的连接。
   - 36-pole RSV connectors:用于36芯电缆的连接。
   - 37-pole male, Sub-D connectors:用于37芯电缆的连接。

6. **Fuse configuration**

   - Screw T. clamp, with fuse:用于有保险丝的螺钉连接。
   - Screw T. clamp, without LED:用于无LED的螺钉连接。
   - Disconnector, with LED:用于有LED的断路器连接。
   - Disconnector, without LED:用于无LED的断路器连接。

7. **Application example**

   - If you need to use a 1769-OB16 digital output card, you can refer to the Interface selection tables to find the appropriate connection and interface configuration.

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**Note:**

- Be sure to match the correct voltage and current ratings of the PLC and the selected cards. See the technical data sheet for each card for specific requirements.
- Always check the LED status when selecting interfaces with LED options.
- Ensure that the connections are secure and tight to avoid electrical issues.
- Consult the online PLC selection guide at www.weidmüller.com for the most up-to-date information.