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To enable the use of this device with DataMan 300 series readers, DataMan 503 reader, and Checker cameras, the pin assignments of the Power I/O connector can be remapped by switching a header between several connectors on the device.

Please note that the RS-232 connector only works with the DataMan 300 series readers.

Use a Checker Extension cable (CKR-200-CBL-EXT) to wire a Checker 4G, DataMan 300 series reader, DataMan 503 reader or In-Sight 7000 camera directly to the M12 connector on the Single Camera Connection Module.

About the Single Camera Connection Module

This device provides a single, IP65-protected wiring and power point to support a single camera. This box supports the following units:

- DataMan 50
- DataMan 300
- DataMan 302
- DataMan 303
- DataMan 503
- Checker 4G
- In-Sight 7000

Cables

1. I/O extension cable, 5m straight (CKR-200-CBL-EXT)
2. Connection cable 24V, I/O, RS-232 (CCBL-05-01)
Single Camera Connection Module Layout

The following images show the layout of a single Single Camera Connection Module.

Cable Glands to Wire Peripherals

Mounting Points

Encoder Terminals are for Checker only.
Single Camera Connection Module Dimensions

Observe the following dimensions when installing your Single Camera Connection Module.

Always leave enough space below the box to avoid pinching or bending the cables leaving the cable glands.
Connecting a Camera

This section highlights the steps needed to safely connect a camera to the Single Camera Connection Module.

1. Remove the front cover by unscrewing the four screws.

2. Make sure that the header is plugged into the socket appropriate to the camera that will be connected to the single camera connection module.

DataMan 300 series/DataMan 50
DataMan 503
Checker 4G
In-Sight 7000

3. If you wish to use trigger wiring, unscrew the cable gland cover, thread in the trigger wire and then screw the cover tightly.

Make sure that the cable is secured tightly in the cable gland.
Connecting a Camera (continued)

4 Insert the wire ends to the proper Input/Output terminal depending on your setup, then secure them using a flat head screwdriver.

5 Reattach the front cover.

6 Connect your camera to the M12 connector.

7 Connect the power cable.

Use a Checker Extension cable (CKR-200-CBL-EXT) to wire a Checker 4G, DataMan 300 series reader, DataMan 503 or In-Sight 7000 directly to the M12 connector on the Single Camera Connection Module.
**Wiring Example**

The image below shows a general example for wiring cameras and different devices to the camera module. You can power up the camera using the M12 connector, and you can use trigger wiring to have the camera start reading at a specified trigger.

![Wiring Diagram]

- **Red**: 24 VDC
- **White**: IN 0/Trigger
- **Yellow**: Ground
- **Grey**: Earth Ground

Ensure Input Common jumper matches wiring style of trigger!
Mounting Instructions

When mounting the Single Camera Connection Module, always use a flat and solid surface, and use all four mounting holes for maximum safety.

- Observe safety regulations when mounting the unit.
- Make sure the cable glands are pointing downwards.

Make sure that the Single Camera Connection Module is always accessible and not blocked by other equipment.
## Specifications

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<tr>
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<tbody>
<tr>
<td><strong>Weight</strong></td>
<td>1 kg (2.2 lb)</td>
</tr>
<tr>
<td><strong>Operating Temperature</strong></td>
<td>0°C — 40°C (32°F — 104°F)</td>
</tr>
<tr>
<td><strong>Storage Temperature</strong></td>
<td>-10°C — 60°C (-14°F — 140°F)</td>
</tr>
<tr>
<td><strong>Maximum Humidity</strong></td>
<td>95% (non-condensing)</td>
</tr>
<tr>
<td><strong>Environmental</strong></td>
<td>IP65 (with cable or protection cap attached to all connectors, front cover properly installed)</td>
</tr>
<tr>
<td><strong>Vibration</strong></td>
<td>EN61373 including IEC 60068-2-6, 60068-2-64 6.4, and 60068-2-27</td>
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### Discrete I/O Operating Limits

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<tr>
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<th>Input Range</th>
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<tr>
<td></td>
<td>88 - 264 VAC</td>
</tr>
<tr>
<td></td>
<td>@ 115 VAC 1.3 A</td>
</tr>
<tr>
<td></td>
<td>@ 230 VAC 0.8 A</td>
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<table>
<thead>
<tr>
<th></th>
<th>DC Power Output</th>
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<tbody>
<tr>
<td></td>
<td>24 VDC</td>
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<thead>
<tr>
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<th>(short circuit and overload protected)</th>
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<tr>
<td></td>
<td>I&lt;sub&gt;Typ&lt;/sub&gt; 1.75 A (42 watts)</td>
</tr>
<tr>
<td></td>
<td>I&lt;sub&gt;Max&lt;/sub&gt; 2.2 A</td>
</tr>
</tbody>
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<tr>
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<th>I/O terminal Blocks</th>
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<tr>
<td></td>
<td>Each 24 VDC terminal has a 0.20 A self resetting fuse</td>
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## Warnings and Notices

**NOTE:** For product support, contact [http://support.cognex.com](http://support.cognex.com)

**CAUTION:** IP protection is ensured only when all connectors are attached to cables or shielded by a sealing cap.

**WARNING:** Failing to follow these instructions may cause serious injury or death.

- **CAUTION** - Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.
- Do not attempt to service or repair this product -- return it to Cognex for service.
- Do not permit anyone other than Cognex Corporation to service, repair, or adjust this product.
- Do not attempt to open or modify this device except as described in this document.
- Do not operate this device if it is damaged or if the covers or seals are missing or damaged.
**Compliance Statements**

Single Camera Connection Modules meet or exceed the requirements of all applicable standards organizations for safe operation. However, as with any electrical equipment, the best way to ensure safe operation is to operate them according to the agency guidelines that follow. Please read these guidelines carefully before using your device.

**European Compliance**

The CE mark on the product indicates that the system has been tested to and conforms to the provisions noted within the 2004/108/EEC Electromagnetic Compatibility Directive and the 2006/95/EEC Low Voltage Directive.

For further information please contact:
Cognex Corporation
One Vision Drive
Natick, MA 01760
USA
Cognex Corporation shall not be liable for use of our product with equipment (i.e., power supplies, personal computers, etc.) that is not CE marked and does not comply with the Low Voltage Directive.

**UL and cUL Statement**

UL and cUL listed: UL60950-1 2nd ed. and CSA C22.2 No.60950-1 2nd ed.

**For European Community Users**


This product has required the extraction and use of natural resources for its production. It may contain hazardous substances that could impact health and the environment, if not properly disposed.

In order to avoid the dissemination of those substances in our environment and to diminish the pressure on the natural resources, we encourage you to use the appropriate take-back systems for product disposal. Those systems will reuse or recycle most of the materials of the product you are disposing in a sound way.

The crossed out wheeled bin symbol informs you that the product should not be disposed of along with municipal waste and invites you to use the appropriate separate take-back systems for product disposal.

If you need more information on the collection, reuse, and recycling systems, please contact your local or regional waste administration.

You may also contact your supplier for more information on the environmental performance of this product.