1. **Installation**

1-1 **Connections and Wiring**

7 Connect the Sensor to the Touch Finder or Computer via the FQ-WN0 Ethernet Cable.

2 Connect the I/O Cable to the Sensor.

The I/O Cable includes lines for the power supply and I/O. Connect the required lines.

3 Connect a power supply to the Touch Finder.

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**Example 1**

Here, measurements are performed when the trigger signal is input and the overall judgement is output.

The TRIG signal is not received while the BUSY signal is ON. Turn ON the TRIG signal while the BUSY signal is OFF.

**Example 2**

Here, a process switching signal is input from an external device to switch the scene.

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**Important**

Use a no-contact output device (e.g., SSR or PLC transistor output) for the TRIG signal. If a contact (e.g., relay) is used, contact bounce may cause the trigger to be input again during execution of a measurement.

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**I/O Signal**

<table>
<thead>
<tr>
<th>Function</th>
<th>TRIG</th>
<th>OUT1 (BUSY)</th>
<th>OUT2 (ERROR)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Measurement trigger input (single)</td>
<td>Command input</td>
<td>Indicates that processing is in progress</td>
<td>Indicates an error has occurred</td>
</tr>
</tbody>
</table>

**Note**

If the TRIG signal with an AC/DC output (power supply is used on FQ-WN0), an AC/DC output (power supply is used on FQ-WN1) is not specifically necessary if the AC/DC output is used.
Adjust the judgement parameters.

Press [Graphics+Details].

Check the area, press the [OK] Button, and then press the [TEACH] Button. Register the judgement condition parameter to adjust and set the upper and lower limits for an OK judgement.

2-2 Measurement Settings

Select items for the desired measurement and register an image as the reference for the measurement.

1. Select the inspection items.
   Example to Register Search as the Measurement Method
   Press [Inspect]. Next, touch [Inspection].
   Press an unused inspection item number and then press [Add item.] on the menu.

Press [Search].

Press [Search position comp.].

Press [Teach].

Check the area, press the [OK] Button, and then press the [TEACH] Button. Register the image as the measurement reference.

Press [OK].

You can add filter items to adjust the image to make it easier to measure. Refer to the User’s Manual for details.

2. Register the measurement reference.

Press [Teach].

Place the object that is to be used as the measurement reference in front of the camera. Move the image that is taken by the Sensor so that the characteristic part for position compensation is inside it.

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