Announcement: Additional functions and specification changes to PF series and POD series control units to improve noise resistance

We have found that in rare cases, the PF Series and POD Series strobe control units may malfunction when used in environments with a high level of external noise. To improve noise resistance, we have added additional functions and changed the specifications for these series.

1. **Subject models**

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Model name</th>
</tr>
</thead>
<tbody>
<tr>
<td>2001187</td>
<td>PF-A16048-4</td>
</tr>
<tr>
<td>2001127</td>
<td>PF-A4048-2</td>
</tr>
<tr>
<td>2001189</td>
<td>POD-22024-4-PEI</td>
</tr>
<tr>
<td>2001070</td>
<td>POD-5024-2-PEI</td>
</tr>
</tbody>
</table>

※This is limited to the case of using parallel communications or trigger signal input.

2. **Malfunction details**

1. Operating any one of the OUTWR, DLYWR, or PLSWR signals may unintentionally change the value of the B8 signal or other WR signals.

2. When flashing multiple channels at once with a trigger signal input, other channels may also be turned on.

3. **Software filter time settings with parallel communications**

In instruction guide, we indicate that the filter time of OUTWR, DLYWR and PLSWR signals with parallel communications is min 50 μs. To improve the noise resistance, we will increase the filter time of software.

※1 μs⇒changed to 49 μs
Before the changes

1. Sequence for writing data

4. Additional functions of trigger signals

We add the functions which can adjust the filter time settings to trigger input.
(Standard model: 1μs~50μs)
It is possible to prevent from the effect of external noise with adjusting the filter values above.
4-1. PF series control units

4-1-1. Menu display and additional items

<table>
<thead>
<tr>
<th>LIGHT</th>
<th>COM NET</th>
<th>TRIG</th>
<th>EXTERNAL</th>
<th>LGC-TRG</th>
<th>ACTIVE HI</th>
</tr>
</thead>
</table>

2. COM Menu Display (operation setting display)

3. Extract of additional functions from Instruction guide (Trigger filter time settings)

PF-A4048-2 : TRG-FILTER1,2
PF-A16048-4 : TRG-FILTER1,2,3,4

4-1-2. Trigger signal input sequence

Before changes

After changes

More than 10 $\mu$s +5 $\mu$s + lighting delay settings (0〜100 $\mu$s)
Fixed value 1 $\mu$s of TRG-FILTER is included in the 5 $\mu$s above.

More than 10 $\mu$s and TRG-FILTER settings (1 $\mu$s〜50 $\mu$s)
+5 $\mu$s + lighting delay setting (0〜100 $\mu$s)
1 $\mu$s of TRG-FILTER settings is included in the 5 $\mu$s above.
Fixed value 1 $\mu$s is included in the 5 $\mu$s above.

4. Trigger input sequences
4-2. POD series control units

4-2-1. Menu display and additional items

5. COM Menu Display (operation setting display)

<table>
<thead>
<tr>
<th>TRG-FILTER1</th>
<th>TRG-FILTER2</th>
<th>1 to 50</th>
<th>1</th>
</tr>
</thead>
</table>

Sets the trigger filter time. (Unit: μs)
Set in the event that noise is mixed with the trigger signal,
Signals with a duration shorter than the set trigger filter time will be regarded as noise
and discarded by the Control Unit.
TRG-FILTER1 and TRG-FILTER2 correspond to the channels L1 and L2, respectively.

6. Extract of additional functions (Trigger filter)

POD-5024-2-PEI : TRG-FILTER1,2
POD-22024-4-PEI : TRG-FILTER1,2,3,4

4-2-2. Trigger input sequence

(1) When the lighting mode is set to O/D Mode

Before changes

- More than 10 μs + 5 μs lighting delay settings
- Fixed value 1 μs of TRG-FILTER is included in the 5 μs above.

After changes

- More than 10 μs and TRG FILTER settings (1 μs ~ 50 μs)
- +5 μs lighting delay setting (0 ~ 100 μs)
- 1 μs in TRG FILTER settings is included in the 5 μs above.
- Fixed value 1 μs is included in the 5 μs above.

* If noise is incorrectly detected as a trigger signal, it may be improved by increasing the set value for the TRG-FILTER.
(2) When the light mode is set to PWM Mode

Before changes

After changes

8. Trigger input sequence

If you could not change the lighting delay, the cables with enhanced noise resistance properties are also available.

5. The products after changes

These changes are applied to the subject models from the production in August, 2019.

6. The download of Instruction guide from our website

The instruction guide after changes can be downloaded from our website on 1st August, 2019.

For any other inquiries, please feel free to contact us. Thank you.

CCS Global Sales Control section