**Specifications**

<table>
<thead>
<tr>
<th>Model</th>
<th>Transmitter</th>
<th>Receiver</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>T-BLA</td>
<td>R-BLA</td>
</tr>
<tr>
<td>Frequency</td>
<td>928.35MHz</td>
<td>866.3MHz</td>
</tr>
<tr>
<td>Modulation Method</td>
<td>FSK</td>
<td></td>
</tr>
<tr>
<td>Modulation Speed</td>
<td>125 kbps</td>
<td></td>
</tr>
<tr>
<td>ID</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Input/Output</td>
<td>LED in red</td>
<td>Output: Relay x 4, RS232C</td>
</tr>
<tr>
<td></td>
<td>Solar cell</td>
<td>Input: Reset-Jin, LS-in</td>
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<td>DC 24V (DC18-36V)</td>
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</tr>
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<td>Temperature in Use</td>
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<td></td>
</tr>
<tr>
<td>Communication Distance</td>
<td>10 to 20 m</td>
<td></td>
</tr>
<tr>
<td>Acquisition of License</td>
<td>Japan,TELEC</td>
<td>EU:CE, China:CMIT</td>
</tr>
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</table>

**Note**
- Usage circumstance affects communication distance.
- Communication error occurs due to noise and shielding material between transmitter and receiver.
- Contact Tohnichi for conditions of wireless certification acquisition for each country.

**Optional accessory**
- AC Adapter/BA-8 (AC100V to 240V)  
- Protective Cover/BL-PCV

**Product movies are available. Visit Tohnichi TV, [https://www.youtube.com/tohnichiTV](https://www.youtube.com/tohnichiTV)**

**BLA**

**Battery Less Wireless Torque Wrench**

- The world’s first verification torque wrench with solar power generation. No battery replacement required. Save time for battery replacement and reduce battery cost.
- Easy parameter setting to pair transmitter and receiver.
- Wired LS torque wrench can be converted to battery less torque wrench.

Your Torque Partner

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E-Mail tohnichi-europe@entime.be
TOHNICHI AMERICA CORP.
E-Mail info@tohnichi.com
TOHNICHI SHANGHAI MFG. CO., LTD.
E-Mail sales@tohnichi-sh.com
**Battery Less Wireless Torque Wrench**

**Features**

- Wireless error-proofing/Pokayoke torque wrench to eliminate a missed tightening error which is No. 1 human error.
- Adapting solar power generation system.
- No battery replacement required.
- Capable of charging battery under illuminance 200lx. Illuminance level at a general factory is between 350 and 750lx.
- Operable in the lightless place after solar battery is charged.
- T-BLA Battery Life
  - Fully charged battery can be used continuously 400 times even under 0lx condition.
  - Switching position autonomously to be charged.
- Just three steps to execute pairing for receiver and transmitter.

<table>
<thead>
<tr>
<th>Illuminance (lx)</th>
<th>Recommended Indoor Light Levels</th>
</tr>
</thead>
<tbody>
<tr>
<td>2000</td>
<td></td>
</tr>
<tr>
<td>1500</td>
<td>Office work, PC work, Study library, Groceries, Show rooms, Laboratories</td>
</tr>
<tr>
<td>1000</td>
<td></td>
</tr>
<tr>
<td>750</td>
<td></td>
</tr>
<tr>
<td>500</td>
<td></td>
</tr>
<tr>
<td>250</td>
<td></td>
</tr>
<tr>
<td>0</td>
<td></td>
</tr>
</tbody>
</table>

**Recommended Indoor Light Levels**

- Warehouses, Homes, Theaters
- Office work, PC work, Study library, Groceries, Show rooms, Laboratories
- Work sensor

- Supermarkets, Mechanical workshops

The ISO standard ISO 8995-1:2002 (CIE 2001/ISO 2002) states that in the areas where continuous work is carried out the maintained work place illuminance should not be less than 200 lx.

**Illuminance level at a general factory is between 350 and 750lx.**

- Operable in the lightless place after solar battery is charged.
- T-BLA Battery Life
  - Fully charged battery can be used continuously 400 times even under 0lx condition.
  - Switching position autonomously to be charged.
- Just three steps to execute pairing for receiver and transmitter.

**Configuration example of error-proofing/Pokayoke system sending relay signal.**

**Configuration example of error-proofing/Pokayoke system sending transmitter ID.**

**Capable of easily installing error-proofing/Pokayoke system by connecting to CNA-4mk3.**

**Battery less wireless torque wrench can be converted from LS type torque wrench.**

- Battery less wireless torque wrench can be converted from LS type torque wrench.
- Check communication status with LED on the side of transmitter.

**CNA-4mk3 Count checker**

- Tightening No., Time management
- Generating relay signal up to 4 torque wrenches
- *Simultaneous reception from multiple torque wrenches cannot be done.

**Features**

- Wireless error-proofing/Pokayoke torque wrench to eliminate a missed tightening error which is No. 1 human error.
- Adapting solar power generation system.
- No battery replacement required.
- Capable of charging battery under illuminance 200lx. Illuminance level at a general factory is between 350 and 750lx.
- Operable in the lightless place after solar battery is charged.
- T-BLA Battery Life
  - Fully charged battery can be used continuously 400 times even under 0lx condition.
  - Switching position autonomously to be charged.
- Just three steps to execute pairing for receiver and transmitter.

**Check communication status with LED on the side of transmitter.**

**Establishing traceability at assembly line by verifying transmitter ID.**

**Parameters**

- ID output only
- ID output up to 10 torque wrenches
- Relay signal and ID output
- Generating relay signal up to 4 torque wrenches

**Communication example of error-proofing/Pokayoke system sending relay signal.**

**Configuration example of error-proofing/Pokayoke system sending transmitter ID.**

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**Wireless error-proofing/Pokayoke torque wrench to eliminate a missed tightening error which is No. 1 human error.**

**Adapting solar power generation system.**

**No battery replacement required.**

**Capable of charging battery under illuminance 200lx. Illuminance level at a general factory is between 350 and 750lx.**

**Operable in the lightless place after solar battery is charged.**

**T-BLA Battery Life**

- Fully charged battery can be used continuously 400 times even under 0lx condition.
- Switching position autonomously to be charged.

**Just three steps to execute pairing for receiver and transmitter.**

**Step One**

- SET & POWER

**Step Two**

- SELECT

**Step Three**

- Click!

- Confirm transmitter ID which is on R-BL’s LED.

**Configuration example of error-proofing/Pokayoke system sending relay signal.**

**Configuration example of error-proofing/Pokayoke system sending transmitter ID.**

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Battery Less Wireless Torque Wrench

**Features**

- Wireless error-proofing/Pokayoke torque wrench to eliminate a missed tightening error which is No. 1 human error.
- Adapting solar power generation system.
- No battery replacement required.
- Capable of charging battery under illuminance 200lx.
- Illuminance level at a general factory is between 350 and 750lx.
- Operable in the lightless place after solar battery is charged.
- T-BLA Battery Life
  - Fully charged battery can be used continuously 400 times even under 0lx condition.
- Switching position autonomously to be charged.
- Just three steps to execute pairing for receiver and transmitter.
- Battery less wireless torque wrench can be converted from LS type torque wrench.

**Illuminance (lx) Recommended Indoor Light Levels**

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<td>300</td>
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<tr>
<td>Restaurants, Hotels, Theaters</td>
<td>100</td>
</tr>
<tr>
<td>Laboratories</td>
<td>50</td>
</tr>
<tr>
<td>Office, Classroom</td>
<td>200</td>
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**Features**

- Just three steps to execute pairing for receiver and transmitter.
- Confirm transmitter ID which is on R-BL’s LED.
- Check communication status with LED on the side of transmitter.
- Fully charged battery can be used continuously 400 times even under 0lx condition.

**Configuration example of error-proofing/Pokayoke system sending relay signal.**

- CNA-4mk3 Count checker
  - Tightening No., Time management
  - Output: OK, NG relay signal etc.
- PLC
- Lamp
- Stopper etc.
- FA System
- Switches, proximity-sensors
- PLC
- Lamp
- Stopper etc.
- FA System
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- PC
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**Configuration example of error-proofing/Pokayoke system sending transmitter ID.**

- ID output only
- Relay signal and ID output
- Generating relay signal up to 4 torque wrenches
- * Simultaneous reception from multiple torque wrenches cannot be done.
- Example of tightening management software.

**Establishing traceability at assembly line by verifying transmitter ID.**

- ID output up to 10 torque wrenches
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