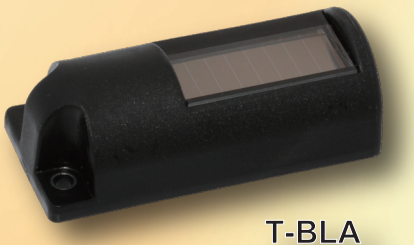
BLA

PAT.PEND.

Battery Less
Wireless Torque Wrench

R-BLA

- 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.



T-BLA

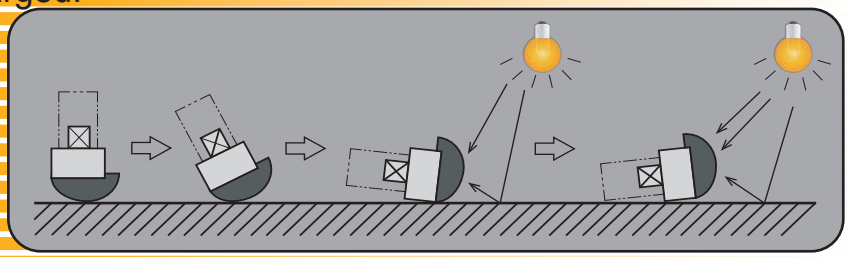
Your Torque Partner TOHNICHI

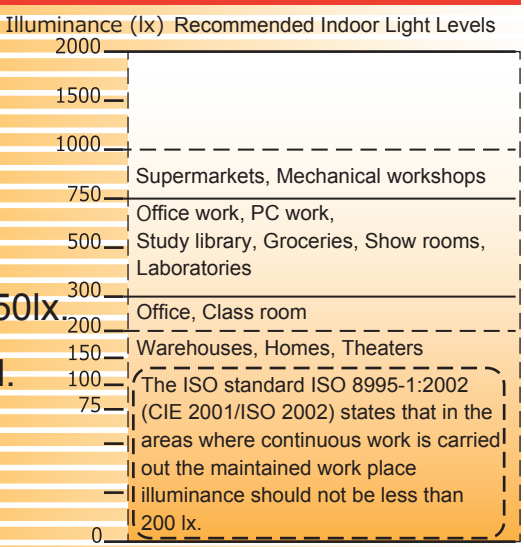
Battery Less Wireless Torque Wrench
BLA

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.

T-BLA



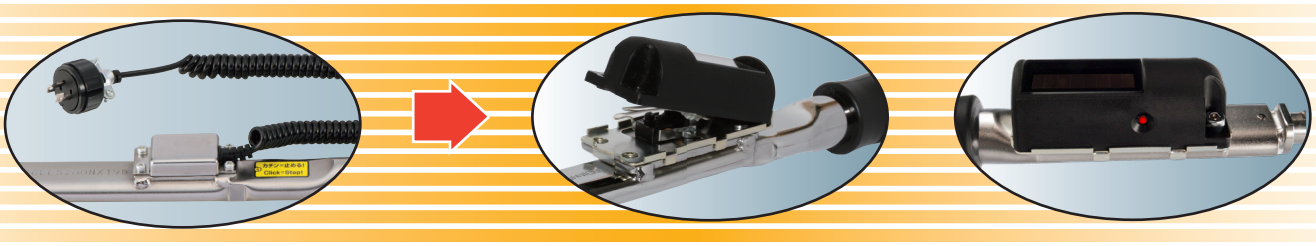


- Just three steps to execute pairing for receiver and transmitter.

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

R-BLA

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



T-BL can be mounted on standard torque wrenches such as QL, QSP, PQL, CL, CSP and PCL models of maximum torque range more than 25Nm and SP/RSP models more than 19Nm of the maximum torque range. For details, consult to Tohnichi distributor or Tohnichi.

Check communication status with LED on the side of transmitter.

Torque Tightening Proofing System

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

CNA-4mk3 Count checker
Tightening No., Time management

Output:
OK, NG
relay signal
etc.

FA System
PLC
Lamp
Stopper etc.

Intput:
Reset, Start, End,
Work sensor

PLC,
Switches,
proximi-
ty-sensors

Generating relay signal up to 4 torque wrenches.

* Simultaneous reception from multiple torque wrenches cannot be done.

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

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

RS232C

Relay
signal x 4

ID output only

R	E	,	*	*	*	*	*	*	*	*	,	R	S	*	CR	LF

Header 8 digits ID RS No. Delimiter

PC
PLC

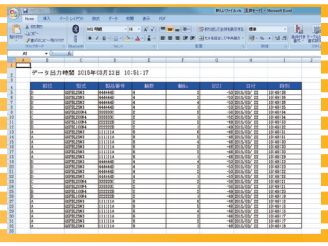
FA System
PLC
Lamp
Stopper etc.

Relay signal and ID output

R	E	,	*	*	*	*	*	*	*	*	,	O	U	T	*	CR	LF

Header 8 digits ID Out No. Delimiter

Generating relay signal up to 4 torque wrenches



ID output up to 10 torque wrenches

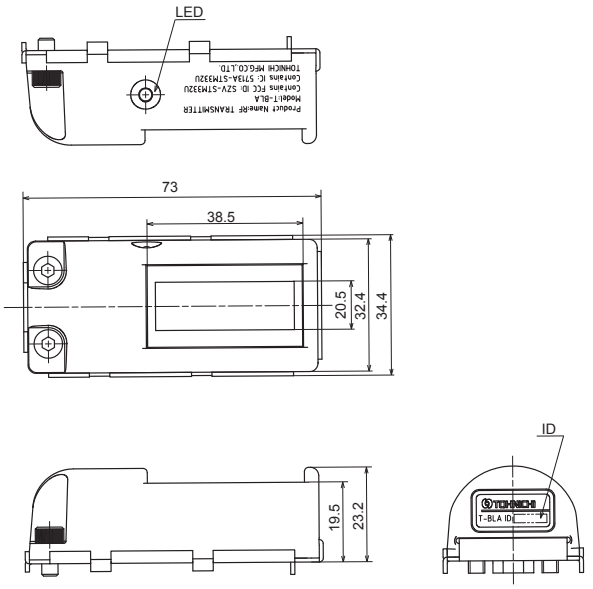
Establishing traceability at assembly line by verifying transmitter ID.

* Example of tightening management software.

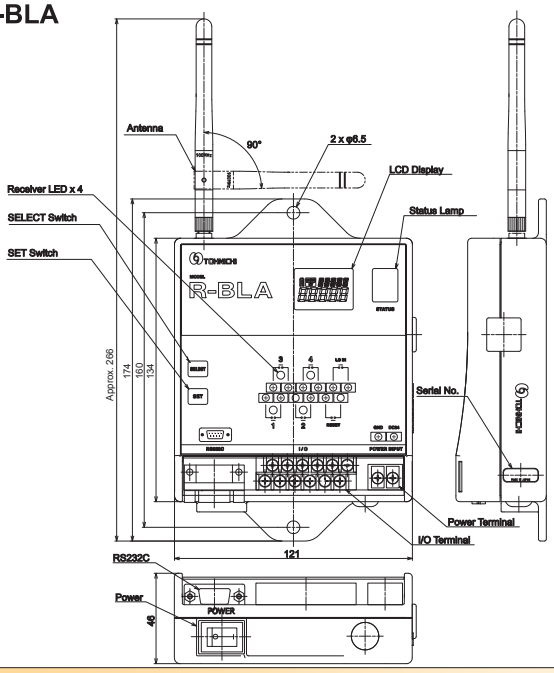
Dimensions

[mm]

T-BLA



R-BLA



Specifications

Model	Transmitter			Receiver		
	T-BL	T-BLA	T-BLE	R-BL	R-BLA	R-BLE
Frequency	928.35MHz	902.875MHz	868.3MHz	928.35MHz	902.875MHz	868.3MHz
Moduration Method	FSK					
Moduration Speed	125 kbps					
ID	ID 8 digits fixed, not selectable					
Input/Output	LED in red			Output: Relay x 4, RS232C Input: Reset-in, LS-in		
Power Supply	Solar cell			DC 24V (DC18-36V) Power consumption less than 5 W		
Antenna	Helix antenna	Whip antenna	Helix antenna	Dipole antenna		
Temperature in Use	0 - 40℃					
Communication Distance	10 to 20 m					
Acquisition of License	Japan:TELEC	US:FCC Canada:IC	EU:CE China:CMIIT	Japan:TELEC	US:FCC Canada:IC	EU:CE China:CMIIT

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**

Example of use.

Example of use.

Product movies are available. Visit Tohnichi TV.
https://www.youtube.com/c/TohnichiTV

TOHNICHI MFG. CO., LTD.
URL http://www.global-tohnichi.com
E-Mail overseas@tohnichi.co.jp
N.V. TOHNICHI EUROPE S.A.
E-Mail tohnichi-europe@online.be
TOHNICHI AMERICA CORP.
URL http://www.tohnichi.com
E-Mail inquiry@tohnichi.com
TOHNICHI SHANGHAI MFG. CO., LTD.
URL http://www.tohnichi-sh.com
E-Mail sales@tohnichi-sh.com

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