

Torque Wrench with Limit Switch

- Limit switch counts the number of "Clicks".
- Connect to PLC or Count Checker/CNA-4mk3 to build verification system
- Can be upgraded into wireless output system by installing T-FHLS256



QLLS25N5



QLLS100N4



SPLS38N2x17

QL type with LS

RoHS

S.I. Model	Metric Model
QLMS2N-MH	20QLMS-MH
QLMS5N-MH	50QLMS-MH
QLMS10N-MH	100QLMS-MH
QLMS10N	100QLMS
QLMS15N	150QLMS
QLMS15N-MH	150QLMS-MH
QLLS25N5	225QL5LS
QLLS50N	450QL3LS
QLLS100N4	900QL4LS
QLLS140N	1400QL3LS
QLLS200N4	1800QL4LS
QLLS280N	2800QL3LS
QLLS420N	4200QL2LS

CL type with LS

RoHS

S.I. Model	Metric Model
CLMS2Nx8D-MH	20CLMS-MH
CLMS5Nx8D-MH	50CLMS-MH
CLMS10Nx8D-MH	100CLMS-MH
CLMS10Nx8D	100CLMS
CLMS15Nx8D	150CLMS
QLMS15Nx8D-MH	150CLMS-MH
CLLS25N5x10D	225CL5LS
CLLS50Nx12D	450CL3LS
CLLS100Nx15D	900CL3LS
CLLS140Nx15D	1400CL3LS
CLLS200Nx19D	1800CL3LS
CLLS280Nx22D	2800CL3LS
CLLS420Nx22D	4200CL2LS

SP2/-MH type with LS

RoHS

Model (Body Size x Width)	
SP2MS/SP2LS	SPLS2-MH
SPMS2N2x5.5	-
SPMS2N2x7	-
SPMS2N2x8	-
SPMS2N2x10	-
SPMS2N2x12	-
SPMS2N2x13	-
SPMS2N2x17	-
SPMS2N2x19	-
SPMS8N2x7	-
SPMS8N2x8	-
SPMS8N2x9	-
SPMS8N2x10	-
SPMS8N2x12	-
SPMS8N2x13	-
SPMS8N2x19	-
SPMS8N2x24	-
SPMS8N2x27	-
SPLS19N2x10	SPLS19N2x10-MH
SPLS19N2x11	SPLS19N2x11-MH
SPLS19N2x12	SPLS19N2x12-MH
SPLS19N2x13	SPLS19N2x13-MH
SPLS19N2x14	SPLS19N2x14-MH
SPLS19N2x17	SPLS19N2x17-MH
SPLS19N2x19	SPLS19N2x19-MH
SPLS19N2X21	SPLS19N2x21-MH
SPLS19N2-1x10	SPLS19N2-1x10-MH
SPLS19N2-2x10	SPLS19N2-2x10-MH
SPLS19N2-3x10	SPLS19N2-3x10-MH
SPLS38N2x8	SPLS38N2x8-MH
SPLS38N2x9	SPLS38N2x9-MH
SPLS38N2x10	SPLS38N2x10-MH
SPLS38N2x11	SPLS38N2x11-MH
SPLS38N2x12	SPLS38N2x12-MH
SPLS38N2x13	SPLS38N2x13-MH
SPLS38N2x14	SPLS38N2x14-MH
SPLS38N2x16	SPLS38N2x16-MH
SPLS38N2x17	SPLS38N2x17-MH
SPLS38N2x19	SPLS38N2x19-MH
SPLS38N2x22	SPLS38N2x22-MH
SPLS38N2x24	SPLS38N2x24-MH
SPLS38N2x27	SPLS38N2x27-MH
SPLS38N2x29	SPLS38N2x29-MH
SPLS38N2x32	SPLS38N2x32-MH
SPLS38N2-1x10	SPLS38N2-1x10-MH
SPLS38N2-2x10	SPLS38N2-2x10-MH

QSP type with LS

RoHS

Model
QSPMS12N4
QSPMS25N3
QSPMS50N3
QSPMS100N4
QSPMS140N3
QSPMS200N4
QSPMS280N3
QSPMS420N

CSP type with LS

RoHS

Model
CSPMS12N4x8D
CSPMS25N3x10D
CSPMS50N3x12D
CSPMS100N3x15D
CSPMS140N3x15D
CSPMS200N3x19D
CSPMS280N3x22D
CSPMS420N2x22D

QRSP type with LS

RoHS

Model
QRSPMS38Nx17
QRSPMS38Nx19
QRSPMS38Nx21
QRSPMS38Nx24

SP2/-MH type with LS

RoHS

Model (Body Size x Width)	
SP2LS	SP2LS-MH
SPLS38N2-3x10	SPLS38N2-3x10-MH
SPLS67N2x14	SPLS67N2x14-MH
SPLS67N2x16	SPLS67N2x16-MH
SPLS67N2x17	SPLS67N2x17-MH
SPLS67N2x18	SPLS67N2x18-MH
SPLS67N2x19	SPLS67N2x19-MH
SPLS67N2x21	SPLS67N2x21-MH
SPLS67N2x22	SPLS67N2x22-MH
SPLS67N2x24	SPLS67N2x24-MH
SPLS67N2x27	SPLS67N2x27-MH
SPLS67N2x29	SPLS67N2x29-MH
SPLS67N2x30	SPLS67N2x30-MH
SPLS67N2x32	SPLS67N2x32-MH
SPLS67N2x33.3	SPLS67N2x33.3-MH
SPLS120N2x14	SPLS120N2x14-MH
SPLS120N2x17	SPLS120N2x17-MH
SPLS120N2x18	SPLS120N2x18-MH
SPLS120N2x19	SPLS120N2x19-MH
SPLS120N2x21	SPLS120N2x21-MH
SPLS120N2x22	SPLS120N2x22-MH
SPLS120N2x23	SPLS120N2x23-MH
SPLS120N2x24	SPLS120N2x24-MH
SPLS160N2x19	SPLS160N2x19-MH
SPLS160N2x21	SPLS160N2x21-MH
SPLS160N2x22	SPLS160N2x22-MH
SPLS160N2x24	SPLS160N2x24-MH
SPLS160N2x26	SPLS160N2x26-MH
SPLS160N2x27	SPLS160N2x27-MH
SPLS220N2x19	SPLS220N2x19-MH
SPLS220N2x22	SPLS220N2x22-MH
SPLS220N2x24	SPLS220N2x24-MH
SPLS220N2x26	SPLS220N2x26-MH
SPLS220N2x27	SPLS220N2x27-MH
SPLS220N2x29	SPLS220N2x29-MH
SPLS220N2x30	SPLS220N2x30-MH
SPLS220N2x32	SPLS220N2x32-MH
SPLS220N2x34	SPLS220N2x34-MH
SPLS220N2x36	SPLS220N2x36-MH
SPLS310N2x22	SPLS310N2x22-MH
SPLS310N2x24	SPLS310N2x24-MH
SPLS310N2x27	SPLS310N2x27-MH
SPLS310N2x30	SPLS310N2x30-MH
SPLS310N2x32	SPLS310N2x32-MH
SPLS310N2x41	SPLS310N2x41-MH
SPLS310N2x46	SPLS310N2x46-MH

PQL type with LS

RoHS

S.I. Model	Metric Model
PQLLS25N	225PQLLS
PQLLS50N	450PQLLS
PQLLS100N4	900PQL4LS
PQLLS140N	1400PQLLS
PQLLS200N4	1800PQL4LS
PQLLS280N	2800PQLLS
PQLLS420N	4200PQLLS

PCL type with LS

RoHS

S.I. Model	Metric Model
PCLLS25Nx10D	225PCLLS
PCLLS50Nx10D	450PCLLS
PCLLS50Nx12D	500PCLLS
PCLLS100Nx15D	900PCLLS
PCLLS140Nx15D	1400PCLLS
PCLLS200Nx19D	1800PCLLS

TiQL type with LS

RoHS

Model	Metric Model
TiQLLS180N	1800TiQLLS
TiQLLS180N	1800TiQLLS
TiQLLS360N	3600TiQLLS

QSPCA type with LS

RoHS

Model
QSPCAM36N
QSPCAM512N
QSPCAL30N
QSPCAL570N

RSP2/-MH type with LS

RoHS

Model (Body Size x Width)	
RSP2MS/RSP2LS	RSP2LS-MH
RSPMS8N2x8	-
RSPMS8N2x10	-
RSPMS19N2x8	RSPLS19N2x8-MH
RSPLS19N2x10	RSPLS19N2x10-MH
RSPLS19N2x13	RSPLS19N2x13-MH
RSPLS38N2x10	RSPLS38N2x10-MH
RSPLS38N2x12	RSPLS38N2x12-MH
RSPLS38N2x13	RSPLS38N2x13-MH
RSPLS38N2x14	RSPLS38N2x14-MH
RSPLS38N2x16	RSPLS38N2x16-MH
RSPLS38N2x17	RSPLS38N2x17-MH
RSPLS67N2x14	RSPLS67N2x14-MH
RSPLS67N2x16	RSPLS67N2x16-MH
RSPLS67N2x17	RSPLS67N2x17-MH
RSPLS67N2x18	RSPLS67N2x18-MH
RSPLS67N2x19	RSPLS67N2x19-MH
RSPLS120N2x17	RSPLS120N2x17-MH
RSPLS120N2x19	RSPLS120N2x19-MH
RSPLS120N2x22	RSPLS120N2x22-MH
RSPLS160N2x19	RSPLS160N2x19-MH
RSPLS160N2x22	RSPLS160N2x22-MH
RSPLS160N2x24	RSPLS160N2x24-MH
RSPLS220N2x22	RSPLS220N2x22-MH
RSPLS220N2x24	RSPLS220N2x24-MH
RSPLS220N2x27	RSPLS220N2x27-MH
RSPLS310N2x24	RSPLS310N2x24-MH
RSPLS310N2x27	RSPLS310N2x27-MH
RSPLS310N2x30	RSPLS310N2x30-MH

SP2-N/-MH type with LS

RoHS

Model (Body Size x Width)	
SP2LS-N	RSP2LS-N-MH
SPLS19N2-1x10N	SPLS19N2-1x10N-MH
SPLS19N2-3x10N	SPLS19N2-3x10N-MH
SPLS19N2-4x10N	SPLS19N2-4x10N-MH
SPLS19N2-5x10N	SPLS19N2-5x10N-MH
SPLS19N2-8x10N	SPLS19N2-8x10N-MH
SPLS19N2-9x10N	SPLS19N2-9x10N-MH
SPLS38N2x14N	SPLS38N2x14N-MH

Limit switch specifications

- AC30V Below 1A
- DC30V Below 1A

Note

1. Refer to base model series for torque ranges and wrench specs.
2. Female connector for LS cable is sold separately. Part# WA5219K.
3. Standard curl cord can be extended to about 2m in full extension.
4. The curl cord length of SPLS19N2-8x10N is about 5m in full extension.

FH Series

Radio Frequency Torque Wrench System

- Wireless error-proofing, Pokayoake, system
- FHSS technology with universal 2.4GHz frequency band
- Wrench ID transfer functions to establish bolt tightening traceability
- Easily change frequency with wireless setting box, SB-FH256
- Available in a wide variety of click type torque wrenches.

Torque wrench with FH256MC transmitter popular model series.



QLFH100N4

QSPFH60N3



CSPFHP3N4X8D *

QSPFH6N4



CSPFHP12N4X8D with QH head

QSPCAFH12N



T-FH256MC

T-FHLS256



R-FH256

SB-FH256



I/O-FH256

FH-COD

FH-MHD

FH-PCV

QLFH	* Adjustable type
	S.I. Model
	QLFH25N5
	QLFH50N
	QLFH100N4
	QLFH140N
	QLFH200N4
	QLFH280N
	QLFH420N

QLFH	* Adjustable type
	Metric Model
	225QL5FH
	450QL3FH
	900QL4FH
	1400QL3FH
	1800QL4FH
	2800QL3FH
	4200QL2FH

QSPFH	* Preset type
	Model
	QSPFH25N3
	QSPFH50N3
	QSPFH100N4
	QSPFH140N3
	QSPFH200N4
	QSPFH280N3
	QSPFH420N

CSPFH	* Preset type
	Model
	CSPFH25N3X10D
	CSPFH50N3X12D
	CSPFH50N3X15D
	CSPFH100N4X15D
	CSPFH140N3X15D
	CSPFH200N3X19D
	CSPFH280N3X22D
	CSPFH420N22D

Note 1. Refer to base model series for torque ranges and wrench specs.
2. Other models are also applicable. Contact to distributor or Tohnichi

NEW

FHP transmitter for small size torque wrenches

- Applicable to small torque wrenches with a range from 0.4 to 15Nm.
- Using the same wireless system as FH series.

QLFHP	Model
	S.I. Model
	QLFHP10N
	QLFHP15N

CLFHP	Model
	CLFHP10NX8D
	CLFHP15NX8D

QSPFHP	Model
	QSPFHP1.5N4 *
	QSPFHP3N4 *
	QSPFHP6N4
	QSPFHP12N4

SP2FHP	Model
	SPFHP2N2X5.5
	SPFHP2N2X7
	SPFHP2N2X8
	SPFHP2N2X10
	SPFHP2N2X12
	SPFHP2N2X13
	SPFHP2N2X17
	SPFHP2N2X19
	SPFHP8N2X7
	SPFHP8N2X8
	SPFHP8N2X9
	SPFHP8N2X10
	SPFHP8N2X12
	SPFHP8N2X13
	SPFHP8N2X19
	SPFHP8N2X24
	SPFHP8N2X27

RSP2FHP	Model
	RSPFHP8N2X8
	RSPFHP8N2X10

QLFHP-MH	S.I. Model
	QLFHP2N-MH *
	QLFHP5N-MH *
	QLFHP10N-MH
	QLFHP15N-MH

CLFHP-MH	Model
	CLFHP2NX8D-MH *
	CLFHP5NX8D-MH *
	CLFHP10NX8D-MH
	CLFHP15NX8D-MH

CSPFHP	Model
	CSPFHP1.5N4X8D *
	CSPFHP3N4X8D *
	CSPFHP6N4X8D
	CSPFHP12N4X8D

PQLFHP	S.I. Model
	PQLFHP5N *
	PQLFHP10N
	PQLFHP15N

PCLFHP	Model
	PCLFHP5NX8D *
	PCLFHP10NX8D
	PCLFHP15NX8D

QSPCAFH	Model
	QSPCAFH6N
	QSPCAFH12N

Note 1. Refer to base model series for torque ranges and wrench specs.
2. FHP transmitter is using the same T-FHLS transmitter module as T-FHLS256.
3. FHP transmitter is provided in combination with a torque wrench.
* Position of FHP transmitter is on the back surface at rightangles

Transmitter module **RoHS**

Model	Description	Dimension [mm]
T-FH256MC	AAA battery x 1, 480,000 times of use	W36 x D80 x H18
T-FHLS256	CR2032 battery x 1, 300,000 times of use	W32.4 x D56 x H22.3

Note 1. Transmission distance 10-20 meters
2. T-FHLS256 is a wireless transmitter module to be installed on LS type torque wrenches.
3. For repair or conversion FM wrenches.

Receiver **RoHS**

All kinds of frequency groups (256 kinds) can be set in one receiver.

Model	Specification	Standard Accessories
R-FH256	Output: No-Voltage contact output (1a), RS232C Size: W150 x D210 x H51 (mm), Weight 1.7kg Power: AC100V-240V, 47-63Hz	Dipole antenna

Note Required to capture signal from FH wrench.

Setting Box **RoHS**

Wireless setting device for FH transmitter and receiver

Model	Specification	Standard Accessories
SB-FH256	Input: RS232C, Power: DC9V battery x 1	Dipole antenna

Note Required to set and change frequency of receiver and transmitter.

Multi I/O Box **RoHS**

Manage 4 tightening signals from receiver and output to external device

Model	Applicable Model	Specification
I/O-FH256	R-FH256	Output: No-Voltage contact output (1a) x 4, Power: AC100-240V

Antenna Extension Cord

Extends antenna from R-FH256 receiver to improve communication conditions

Model	Applicable Model	Specification
FH-COD	R-FH256	Cable Length: approx. 9.5m

Magnetic Antenna Holder

Use this to fix the position of extended antenna

Model	Applicable Model	Specification
FH-MHD	R-FH256	Cable Length: approx. 1.5m

Protective Cover

Put it on the transmitter (T-FH256MC and T-FHLS256) to protect from physical damage.

Model	Applicable Model	Specification
FH-PCV	T-FH256MC	Material: Silicon Resin
FHLS-PCV	T-FHLS256, T-FMA	

Contact Tohnichi or distributor for conditions of wireless certification acquisition for each country.

BL Battery Less Wireless Torque Wrench



CSPBLA25N3x10D with SH-N head
CSPBLE25N3x10D with SH-N head



T-BLA/T-BLE



T-BLA



T-BLE



R-BLA



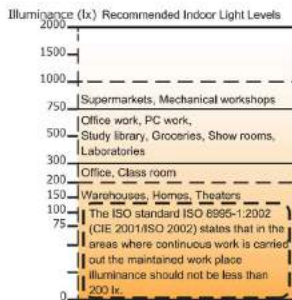
R-BLE



BL-PCV



BA-8



- Radio frequency torque wrench system with solar power generation
- No battery replacement
- Chargeable under level of illuminance 200lx.
- Great for the environment
- Available on a wide variety of click type torque wrenches.

QSPBLA *QSP with T-BLA

Model
QSPBLA25N3
QSPBLA50N3
QSPBLA100N4
QSPBLA140N3
QSPBLA200N4
QSPBLA280N3
QSPBLA420N

CSPBLA *CSP with T-BLA

Model
CSPBLA25N3x10D
CSPBLA50N3x12D
CSPBLA50N3x15D
CSPBLA100N3x15D
CSPBLA140N3x15D
CSPBLA200N3x19D
CSPBLA280N3x22D
CSPBLA420Nx22D

QSPBLE *QL with T-BLE

Model
QSPBLE25N3
QSPBLE50N3
QSPBLE100N4
QSPBLE140N3
QSPBLE200N4
QSPBLE280N3
QSPBLE420N

CSPBLE *CSP with T-BLE

Model
CSPBLE25N3x10D
CSPBLE50N3x12D
CSPBLE50N3x15D
CSPBLE100N3x15D
CSPBLE140N3x15D
CSPBLE200N3x19D
CSPBLE280N3x22D
CSPBLE420Nx22D

Note Available in USA and Canada only

Note Available in EU and China only

SPBLA *SP with T-BLA

Model
SPBLA38N2x14
SPBLA38N2x27

Note Available in USA and Canada only

SPBLE *SP with T-BLE

Model
SPBLE38N2x14
SPBLE38N2x27

Note Available in EU and China only

Transmitter module

Model	Description	Dimension [mm]
T-BLA	BLA Transmitter for USA and Canada	W34.4 × D73 × H23.2mm
T-BLE	BLE Transmitter for EU and China	H23.2mm

- Note
1. T-BLA/BLE can be installed on LS type torque wrenches.
 2. LED on the side of transmitter to check communication status
 3. For repair or conversion.

Receiver

Model	Description	Dimension [mm]
R-BLA	BLA Receiver for USA and Canada	W121 × D174 × H46mm
R-BLE	BLE Receiver for EU and China	

- Note
1. Simultaneous reception from multiple torque wrenches cannot be done.
 2. It transmits relay signal up to 4 torque wrenches.
 3. Required to capture signal from BLA/BLE wrenches.

Standard Accessory Dipole Antenna

Protective Cover

Model	Applicable model	Material
BL-PCV	T-BLA, T-BLE	NBR

AC Adaptor for R-BLA and R-BLE

Model	Description	Cable length
BA-8	AC100V-240V	approx. 2m

Specifications of T-BLA/BLE and R-BLA/BLE

Approved Market	USA and Canada		EU and China	
	Transmitter	Receiver	Transmitter	Receiver
Model	T-BLA	R-BLA	T-BLE	R-BLE
Frequency	902.875MHz		868.3MHz	
Modulation Method	FSK		ASK	
Modulation Speed	125kbps			
ID	8 digits ID /Non-modifiable			
Input/Output	-	Output: Relay x4, RS232C Input: Reset-in, LS-in	-	Output: Relay x4, RS232C Input: Reset-in, LS-in
Power Supply	Solar cell	DC24V/18 ~ 36V Power consumption: Less than 5W	Solar cell	DC24V/18 ~ 36V Power consumption: Less than 5W
Antenna	Whip antenna	Dipole antenna	Helix antenna	Dipole antenna
Operating Temperature [°C]	0 ~ 40			
Communication Distance	10 - 20m			
Acquisition of License	FCC/USA, IC/Canada		CE/EU, CMIIT/China	

FMA *For United States and Canada Only Radio Frequency Torque Wrench System



R-FMA



T-FMA

- 900 MHz frequency wireless error-proofing torque system
- FHSS Technology decreases interference and increases signal capacity
- Transmission Distance 10-20 Meters/30-60 Feet
- Easily change frequency with wireless setting box, SB-FMA
- Available on a wide variety of click type torque wrenches.

Transmitter, Receiver, and Setting Box

Model	Description	Specifications
T-FMA	Transmitter for R-FMA	900MHz (902.5 - 927.5MHz) 250kHz interval, 80CH, approx. 10 - 20m / 30 - 60 feet operating distance
R-FMA	Receiver for T-FMA	
SB-FMA	Setting box	

- Note
1. Radio frequency communication errors may be caused by noise or a shield placed between the transmitter and receiver. In addition, radio waves reflected by metal, concrete, etc. may interfere with radio waves directly sent to the antenna of the receiver and dead point occurs, resulting in communications errors.
 2. Available only in the United States and Canada.
 3. CSPFMA, QSPFMA model series are most popular.