# FD/FDD

Click type torque wrench with wireless data transfer function



CSPFD25N3X12D CSPFDD25N3X12D







FD/FDD Free setting

# **Tightening Data Management System**

- · Transfer actual applied torque and wrench ID establish tightening traceability
- · LED light offers simple visual judgment
- · Interchangeable torque wrench type allows to use variety of standard heads
- · FDD prevents double tightening counting by angle detection

3								3	Modulacy :	E3 70 + Faight
Model		Torque Range [N-m]		Torque Range [kgf·m]		Torque Range [lbf-ft]		Overall Length	Weight	Head
FD	FDD	MinMax.	1 digit	MinMax.	1 digit	MinMax.	1 digit	[mm]	[kg]	Size
*****	1			kgf-m	kgf·m	Ibf-ft	lbf·ft			
CSPFD25N3-10N×10D	CSPFDD25N3-10N×10D	2-10	0.4	0.2-1	0.04	1,5-7,5	(5)4C/2C*	102	0.32	10D
CSPFD25N3×10D	CSPFDD25N3×10D	5-25 0.1 0.5-2.5 0.01 3.6-18		193	0.32	100				
CSPFD50N3×12D	CSPFDD50N3×12D	10-50	0.0	1-5	0.02	7.5-36	0.1	214	0.46	12D
CSPFD50N3×15D	CSPFDD50N3×15D	10-50	0.2	1-5 0.	0.02	7.0-30		217		
CSPFD100N3×15D	CSPFDD100N3×15D	20-100	0.5	2-10	0.05	15-75	0.2	290	0.65	15D
CSPFD140N3×15D	CSPFDD140N3×15D	30-140		3-14		25-100	0.5	349	0.77	
CSPFD200N3×19D	CSPFDD200N3×19D	40-200	1	4-20	0.1	30-150	-	429	1.2	19D
CSPFD280N3×22D	CSPFDD280N3×22D	40-280		4-28		30-200	1	627	1.65	22D

- Interchangeable head is sold separately

- 2. The transmitter display shows 3 digit for torque value.
  2. FDD comes with double tightening detection function.
  4. Contact Tohnichi for conditions of wireless certification aquisition for each contry.
- 5. Ask to Tohnichi or distributor for any other torque range.

Standard Accessories Rechargeable AAA battery x 2 pcs, Charger, Protective Cover

Receiver	Setting Box				
Model	Description	Description Dimension [mm]		De	
R-FHD256	Receiver for FD/FDD	W110 × D48 × H150	SB-FH256	Setting of	
Note	Power cable is 1.	4m.	00111200	Judg	
Standard Accessories Dipole Antenna, F		RS232C cable	Note	1. It is appl	
Protective	Cover			2. There are	

Protective Cover						
Model	Applicable Model	Specification				
ED DOV	ED EDD	Material Ciliana Dania				

Model		Description	Dimension [mm]			
	SB-FH256	Setting of 3-digit ID, Group, Judgment code	W160 × D120 × H35			
	Moto	1. It is applicable to existing of	ornducts			

- re several versions in wireless
  - the versions With using PC setting software provided from Tohnichi allows to set 7-digit ID.

FD/FDD Transmitter Specifications

Model	FD	FDD				
Double Tightening Detection Angle Range		0 - 360°				
LED	Blue: OK judgment for tightening torque Red: NG judgment for tightening torque Red flashing: Transmitting error	Blue: OK judgment for tightening torque and double tightenin Red: NG judgment for tightening torque and double tightenin Red flashing: Transmitting error				
Tightening torque-3 digits, Torque unit, Battery level/4 levels		Tightening torque/angle convertible 3-digits, Torque unit, Battery level/4 levels				
Operation Key	POWER switch, TEST switch, SET switch					
Operating Time 24 hrs		12 hrs				
Other Functions	Auto zero, Auto power off/0-99 mins.					

## FD/FDD Common Outline

FHSS, Frequency Hopping Spectrum System and 10 tims of retry make communication reliability.



Set the upper and lower limit one point to receiver. The receiver judges applied torque and sends the judgment result to the transmitter.

Manages several torque wrenches with 1 receiver



External device is required.

It controls each tightening portion of upper and lower limit. Send back the judgment result to each torque wrench through the receiver.



Counter

# FDD Double Tightenig Detection Function

If the same fastener is tightenied twice the second tightening data will be rejected.



Completion of tightening process with Blue signal.



LED lights Red when FDD wrench click on tightened bolt.



Click type torque wrench

CSPLD100N3X15D with QH head and fixed cable



- Transfer actual applied torque by cable connection with CD5 display
- · CD5 display gives judgment for Hi/Lo set torque value
- · Interchangeable torque wrench type allows to use variety of standard heads
- · CD5 and wrench are calibrated together to one torque setting

Mcdel		Torque Range [N·m]	Torque Range [kgf·cm/kgf·m]		Torque Range [lbf-in/lbf-ft]	
Fixed Cable	Quick Connect Cable	Min,-Max,	Min,-Max.	MinMax.	MinMax.	Min,-Max,
CSPLD	CSPLDC		kgf·cm	kgf-m	lbf-in	lbf-ft
CSPLD25N3-10N×10D	CSPLDC25N3-10N×10D	2-10	20-100	0.2-1	20-85	1.5-7.5
CSPLD25N3×10D	CSPLDC25N3×10D	5-25	50-250	0.5-2.5	44.3-221.2	3.69-18.45
CSPLD50N3×12D	CSPLDC50N3×12D	10-50	100-500	1-5	88 5-442 5	7.38-36.9
CSPLD50N3×15D	CSPLDC50N3×15D	10-50	100-500	1-0	05.5-442.5	7.30-30.9
CSPLD100N3×15D	CSPLDC100N3×15D	20-100	200-1000	2-10	177.0-885.0	14.76-73.8
CSPLD140N3×15D	CSPLDC140N3×15D	30-140	300-1400	3-14	265.5-1239.1	22,14-103,32
CSPLD200N3×19D	CSPLDC200N3×19D	40-200	400-2000	4-20	354.0-1770.1	29.52-147.6
CSPLD280N3×22D	CSPLDC280N3×22D	40-280	400-2800	4-28	354.0-2478.2	29.52-206.64
CSPLD420N×22D	CSPLDC420N×22D	60-420	600-4200	6-42	531.1-3717.3	44.28-309.9



- 1 CSPLD/CSPLDC wrench and CD5 display are calibrated together, At time of order, provide torque set value and confirm cable types and length. Wrench only are supplied as back ups or for replacement.
- Calibration procedure required when connecting new wrench to CD5 Display. Contact Tohnichi for assistance.
- 3 Interchangeable head is sold separately. Refer to page 41 to 44.
  4 If connecting CSPLD/CSPLDC to your existing CD5 display and use the OK/NG judgment LED light on the wrench, it requires a power supply AC adapter sold separately, contact to Tohnichi for details,



CD5

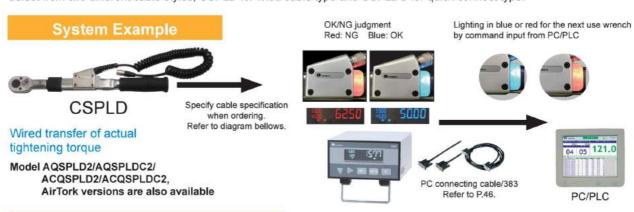
\* CD5 Display is calibrated to one wrench.

Display (Required) CD5 W150 x D190 x H94 Refer to page 63 for more information

CD5 Output Cable (Optional) D-SUB Pin Female CD5 - PC

## CSPLD/CSPLDC Outline

Wired system features highly reliable transmitter mounted on a click torque wrench that captures actual applied torque data. CD5 display shows actual tightening torque and judgment is made whether or not the torque is within the programmed Hi/Lo parameters. Connect to PLC and PC software to store and control data for increased tightening reliability. Select from two different cable styles, CSPLD for fixed cable type and CSPLDC for quick connect type.



## CSPLD/CSPLDC Cable Figure

