CNA-4mk3

POKA Patrol/ Count Checker

| Assembly | **Digital** | **Relay Counter** | **Judgment** | **RoHS** |

• Tightening count verification with connecting up to 4 torque wrenches.
• Max. 8 preset counts, timer, alart by buzzer and lamp function are built in.
• Ideal for manufactuaring process management of mixed production line.

CNA-4mk3

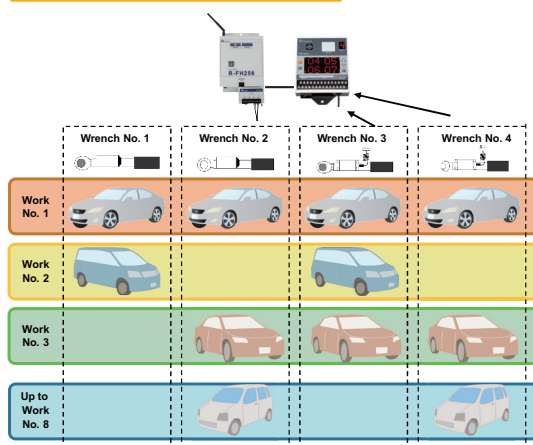|	
Count Display	16 × 32 dot-matrix LEDs
OK/NG Judgment Display	30 × 25 square display lamp (commonly used for OK/NG) OK: Blue lamp turned on NG: Red lamp blinking + Buzzer sounds (4 patterns)
Work No. Selection Display	1-digit 7-segment LED
Count Input	Contact input × 4
Max. Tightening Number of Bolts	99 counts
Max. Number of Works	8 sets
OK/NG Judgment Setting	• Preset judgment, • END input judgment, • Automatic judgment (0 to 300 seconds in steps of 1 second)
Output Function	• OK/NG output (Relay contact output rating: 30 V DC, 1 A, 125 V AC, 0.3 A) • Torque wrench selection signal output (Open collector rating: 100 mA)
Input Function	• SELECT input × 4, • START input, • END input, • RESET input, • WORK SENSOR input
Timer Function Setting	• Double count prevention timer (0 to 10 seconds in steps of 0.1 second) • Automatic reset timer (0 to 60 seconds in steps of 1 second) • Interval warning timer (0 to 99 seconds in steps of 1 second)
Setting Method	Special-purpose application software (USB communication), key operation
Operating Condition	0 ~ 40 °C, Below 85%RH (no condensation)
Power Supply/Electricity Consumption	AC100 ~ 240V ± 10% 50/60Hz, Below 10W
Weight/Dimension	400g, W121 × D175 × H44.9mm

| Standard Accessories | Connecting cable (CNA-4mk3 to PC, USB A-B type) |

Add the Count Checker to complete your torque verification system, to visualize and track clicks captured from a variety of compatible Tohnichi models.

| Compatible Models | • LS/MS Limit Switch Wrenches. |

• Wrenches & Receivers Models Series: FH, FHSLS, FHP, FHD, FD/FDD, BLA, BLE and FMA

CNA-4mk3 Outline

Setting example
Connect 2 LS torque wrenches directly and 2 Wireless torque wrench through receiver and I/O box.

Work No.2 is required to tighten 2 different portions, one has hexagon bolts 4pcs and the other has cap screw 3pcs

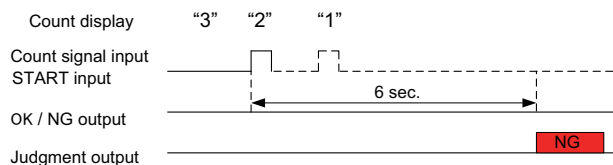| No.	Setting	WRENCH No.1	WRENCH No.2	WRENCH No.3	WRENCH No.4
2	Tightening count	4 ▼	0 ▼	3 ▼	0 ▼

Set the number of bolts (0-99pcs) the work needs for each torque wrench. Set 0 when no torque wrench is needed.

Example of Various Timer Functions

Automatic Judgment Timer (1-300 sec. 1 sec. interval)
Starts after START input or input of first count signal, and judges OK/NG as the timer reaches set time

[Timing chart]
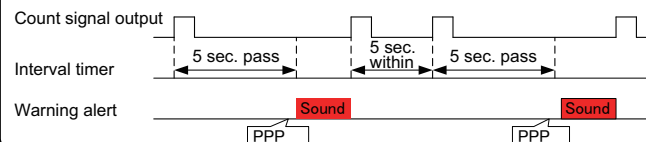Tightening number 3pcs, Judgment mode JG3, Automatic judgment timer 6sec.

Count display	"3" "2" "1"
Count signal input START input	
	6 sec.
OK / NG output	
Judgment output	NG

Interval Timer (0-99 sec. 1 sec. interval)
If the operator does not go on to the next bolt within the interval timer (0-99 sec. 1 sec. interval), the alarm goes off to warn the operator.
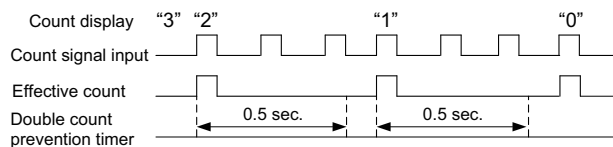
[Timing chart]
Tightening number 4pcs, Interval timer 5 sec.

Count signal output	
Interval timer	5 sec. pass / 5 sec. within / 5 sec. pass
Warning alert	Sound / Sound
	PPP / PPP

Double count prevention (0.1-10 sec. 0.1 sec. interval)
Prevents counting an accidental double click

[Timing chart]
Tightening number 3pcs, set on 0.5 sec.
and operates torque wrench several times within 0.5 sec.

Count display	"3" "2" "1" "0"
Count signal input	
Effective count	
Double count prevention timer	0.5 sec. / 0.5 sec.

Easy setting with CNA-4mk3 setting software
Setting software gives instruction for each setting parameter.