

# DLR5040A-WN

■ Screw Fastening Counter

## Features

For prevention of human fastening errors and enhanced fastening management accuracy

- Ideally suited for the assembly lines of vehicles and electrical equipment requiring reliable screw fastening.
- The controller receives signals from electric screwdrivers to provide highly reliable screw fastening control.
- Count Return Function: When a screw is loosened, a reverse signal output from the electric screwdriver reverses the count by one.
- The Count Correction Function does not count elevated screws or double fastening as fastening errors.
- Input voltage range from 100 to 240VAC is acceptable in any part of the world.  
(The screwdrivers to be used in combination with the counter require input power supplies that are written on the respective nameplate.)
- Link Connection Function: You can build up a simple sequential screw tightening system by connecting the DLR5640 screw tightening counters in series without using any external controller such as a programmable controller.
- Driver Lock Function prevents unexpected start of screwdrivers.
- Compact and Lightweight (Compared with our conventional models decreased by 30% in volume and by 38% in mass.)
- SPC type screwdrivers for DLR5040A-WN are designed on the basis of established transformerless screwdrivers.

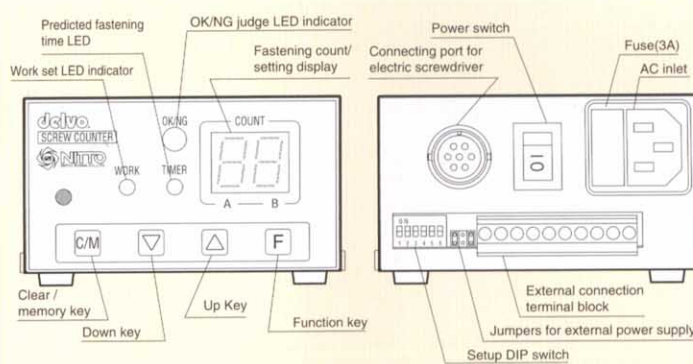


## Specifications

Model	DLR5040A-WN
Count	1 ~ 99
Counting method	Count-up / Count-down
Count correction function	Count normal fastening only
Self adjustable timer setting	0.01 to 0.99 second
Work detection function	Yes (1 terminal) / No
External count input	2 terminals (PARTS A / PARTS B)
Work installation timer setting	0 to 9.5 seconds
OK output timer setting	0 to 9.5 seconds
NG alarm	ON (1) / ON (2) / OFF
OK buzzer	ON (1) / ON (2) / ON (3) / OFF
Count return function	ON / OFF
NG judge timing	WORK SET / DRIVER ON
Automatic / manual OK judge	AUTO / MANUAL
Screwdriver lock function	ON / OFF
Multiple link	Up to 10 counters can be connected.
External inputs on terminal block	SENSOR / RESET / LINK-IN / PARTS A / PARTS B
External outputs on terminal block	OK / NG / LINK-OUT
Parameter memory	Parameters stored in internal nonvolatile memory
Power supply	100VAC~240VAC, 50/60Hz ※See the bottom asterisk.*
Dimensions (mm)	100 (W) × 60 (H) × 120 (D)
Mass (g)	600

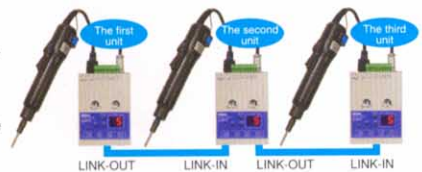
Accessory : 1.5m cord with UL three-prong plug.

## Front and rear panels



## LINK function

When counters are connected via multiple link connection, all screwdrivers are placed in the standby state and will not start except the one to be initially operated. In the connection shown on the right, all screws will be fastened by the time the third screwdriver finishes screws. (Up to 10 counters can be connected.)



## Dedicated Screwdrivers for DLR5040A-WN

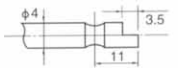

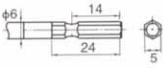
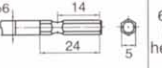
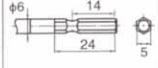


TD04061 SPC cord for commercial power source (optional)



Dedicated screwdrivers can be directly plugged in commercial power source.

## Dedicated screwdrivers

Model	Lever start Push to start	Miniature screw (1~3.5mm)						Machine screw (2.6~6mm)						DLV30 Type	
		DLV7020-SPC	DLV7030-SPC	DLV7031-SPC	DLV8020-SPC	DLV8030-SPC	DLV8031-SPC	DLV7120-SPC	DLV7130-SPC	DLV7140-SPC	DLV8231-SPC	DLV8241-SPC	DLV8251-SPC	DLV30SP-SPC	DLV30HP-SPC
Input Voltage		Supplied from the Counter *													
Torque Adjustment		Stepless													
Torque (N·m)		0.05~0.55	0.30~1.10	0.30~1.00	0.10~0.55	0.30~1.10	0.30~1.00	0.25~0.75	0.50~1.70	1.20~3.00	2.00~4.50	0.50~1.70	1.20~3.00	2.00~4.50	0.40~3.00
Free speed (min <sup>-1</sup> )		900	650	1,200	900	650	1,200	1,000	700	450	2,000	1,200	700	1,200	2,000
Power Consumption (W)		Approx. 25		Approx. 30	Approx. 25		Approx. 30	Approx. 35			Approx. 45				
Screw Size (mm)	Machine Screw	1~3	2~3.5	2~3	1~3	2~3.5	2~3	2.6~3	2.6~4	3.5~5	4.5~6	2.6~4	3.5~5	4.5~6	2.6~5
	Tapping Screw	1.2~2.6	2~3	2~3	1.2~2.6	2~3	2~3	2.3~3	2.5~3.5	3~4	4~5	2.5~3.5	3~4	4~5	2.5~4
Bit Type (mm)								6.35mm (1/4") hex shank		6.35mm (1/4") hex shank					
Mass (g)		380		390			710 (7100series) / 670 (8100series)			810	710 (7200series) / 670 (8200series)		810	700	
Cord length (m)		3 (with connector)													
Output signals		Start, Torque up, Reverse													
Grounding bit feature		Equipped as standard													

\* While the Screw Fastening Counter is designed to accept any input voltage ranging from 100VAC to 240VAC, the screwdrivers to be used in combination with the Counter require input power supplies that are written on the respective nameplate.