

DLR5040A-WN

■ Screw Fastening Counter

Features

For prevention of human fastening errors and enhanced fastening management accuracy

- Best suited for assembly lines of vehicle equipment and harness installation that require reliable screw fastening.
- Detection of the signals from electric screwdrivers enables highly reliable screw fastening management.
- Count Return Function : In the event of refastening, a reverse signal outputted from the electric screwdriver reverses the count by one.
- Count Correction Function : If, because of a fastening error such as elevated screw or double fastening, a torque reached signal comes before the fastening time set on the timer built in the counter elapses, no count is recognized.
- Link Connection Function : You can build up a simple sequential screw fastening system by connecting the DLR5040A-WN screw fastening 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.

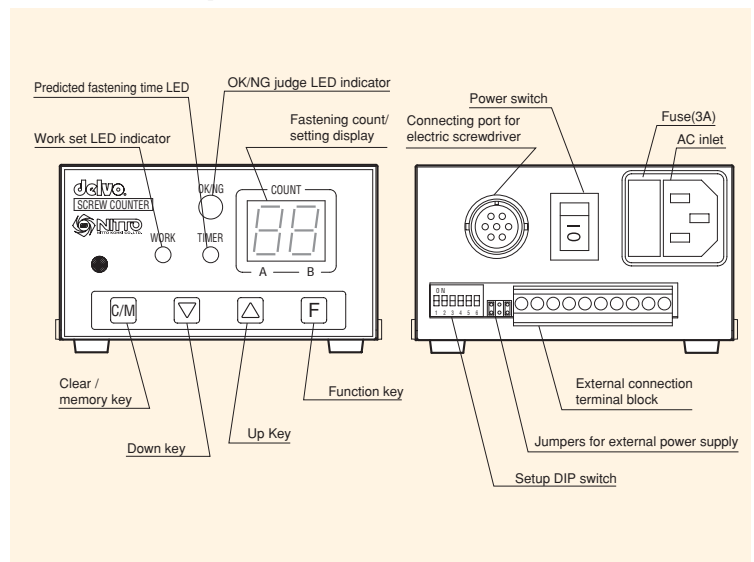


◀ Example of use together with a sensor available in the market

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 (with self adjustable timer)
External count input	2 terminals (PARTS A / PARTS B)
Work installation timer setting	0 to 3 seconds
OK output timer setting	0 to 3 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 / PART B
External outputs on terminal block	OK / NG / LINK-OUT
Parameter memory	Parameters stored in internal nonvolatile memory
Power supply	100VAC, 50/60Hz
Dimensions (mm)	100 (W) × 60 (H) × 120 (D)
Mass (kg)	0.6
Accessories	Power cord with U.S.A plug (1.5m) Suspension bail (2pcs.)

Front and rear panel



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)						
		DLV7020-SPC	DLV7030-SPC	DLV7031-SPC	DLV8020-SPC	DLV8030-SPC	DLV8031-SPC	DLV7120-SPC	DLV7130-SPC	DLV7140-SPC	DLV8150-SPC	DLV8231-SPC	DLV7241-SPC	DLV7251-SPC
Input Voltage		AC100V, 50/60Hz (supplied from 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
Free speed (min⁻¹)		900	650	1,200	900	650	1,200	1,000	700	700	450	2,000	1,200	700
Power Consumption (W)		25		30	25		30	35			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
	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
Bit Type (mm)														
Mass (kg)		0.38			0.39			0.71 (7100series) / 0.67 (8100series)			0.81 (7200series) / 0.67 (8200series)			
Cord length (m)		3 (with connector)												
Output signals		Start, Torque up, Reverse												
Grounding bit feature		Equipped as standard												