

See page 53 for External Dimensions















# C Series (Current control type) Model DLV04C/DLV10C CE

# **Features**

- · Easy fastening setting by controller
- Current Controlled Torque System suitable for screw fastening work
- · Low-voltage brushless motor
- ESD (electrostatic discharge) protection structure
- · For both hand-held / automatic machines
- · Controller has built in counting function. Prevents human errors



### **Specifications**

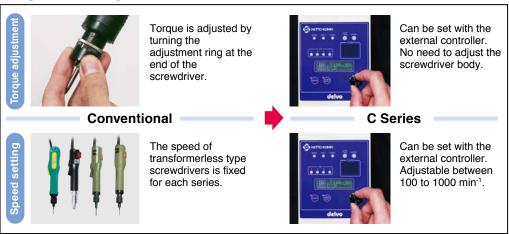
	Model	Bit	DLV04C10L-AY K	DLV10C10L-AY K	
	Starting Method		Lever start		
	Power Sou	irce	From dedicated controller		
Electric Screwdriver	Torque Adj	ustment	Adjustment from 1 to 100% in 1% increments		
	Torque (Nm [lbf.in])	SOFT fastening setting (1000 min <sup>-1</sup> setting)	0.05 to 0.4 [0.4 to 3.5]	0.2 to 1.0 [1.8 to 8.9]	
		SOFT fastening setting (600 min <sup>-1</sup> setting)	0.05 to 0.35 [0.4 to 3.1]	0.2 to 0.45 [1.8 to 4.0]	
		HARD fastening setting	0.05 to 0.4 [0.4 to 3.5]	0.2 to 1.0 [1.8 to 8.9]	
	Free Speed	SOFT fastening setting	600 to 1000		
	(min <sup>-1</sup> )	HARD fastening setting	100 to 1000		
	Power Consumption (W)		30		
	Screw Size	Machine screw	1.2 to 3.0	1.8 to 4.0	
	(mm)	Tapping screw	1.1 to 2.5	1.6 to 3.5	
	Bit Type		NK35 (OD6.35 mm [1/4"] Hex. Shank)		
	Mass		370 g [0.82 lbs]		
	Rated Operation		ON: 0.5 seconds / OFF: 3.5 seconds		
	Bit Grounding		Equipped as standard		
	Standard A	Accessories	• Bit NK35(No.0 x 4 x 75): 1 pc. • Bit NK35(No.1 x 4 x 75): 1 pc. • Bit NK35(No.2 x 4 x 75): 1 pc. • Connection Cord 2 m (DLW9075): 1 pc.	• Bit NK35(No.2 x 4 x 75): 1 pc. • Connection Cord 2 m (DLW9075): 1 pc.	
$\Box$			Supension Bail: 1 pc.		

Please contact us for 4 mm bit type ("M" Bit).

	Model	DCC0101X-AZ P*1	
	Power Source	100 - 240 V AC, 50/60Hz	
	Operation Channel Function	Torque and speed setting in 4-channel memory Can switch to any operation channel	
	Count Function	Tracks screws fastened Workpiece detector can be incorporated	
	External Start up Control Function	Start up control can be enabled by external input signal	
5	Output Voltage	24 V DC	
Controller	Input Signal Method	Photocoupler input (24 V DC drive (5 mA/1 input), respond to PNP output)	
ပြ	Output Signal Method	Photocoupler output (30 V DC or less, 30 mA/1 output or less, PNP output method)	
	Service Power Source	24 V DC (Maximum capacity 200 mA)	
	Power Consumption	When on standby: 20 W During electric screwdriver rotation (rated): 30 W	
	Mass	1100 g [2.4 lbs]	
	ESD (Electrostatic Discharge) Protection	Adopted (IEC61340-5-1 compliant)	
	Power Cord 2 m (Optional)*2	DLW9220 / DLW9240 / DLW9250	

\*1) DCC0101X-AZ N with NPN output also available
\*2) The power cord is sold separately.
Ask us for the required power cord when ordering. (see page 17 "Optional Accessories")

# **Comparison of Adjustment Method with Conventional Model**





# **SOFT / HARD Fastening Settings**

Two types of fastening mode available subject to the workpiece.

Coordinate the actual workpieces, screws and operating conditions and determine the fastening mode.

### **SOFT fastening setting**

Suitable for workpieces with high fastening load such as tapping screws or fastening soft objects such as rubber.

### **HARD** fastening setting

Suitable for workpieces with small fastening load such as threaded holes or rigid bodies such as metal.

# **FSTN-T (Fastening Timer)**

Can be set when "HARD" fastening setting is selected.

By increasing the rotation speed during no-load fastening time prior to seating, the overall fastening time is reduced.

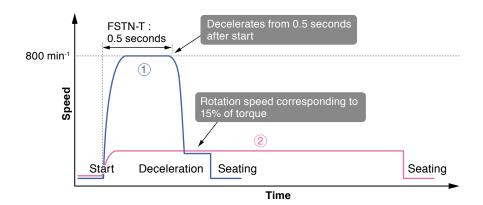
① Example with Fastening Timer Speed: 800 min<sup>-1</sup>

Torque: 15% Fastening Timer: **0.5** sec

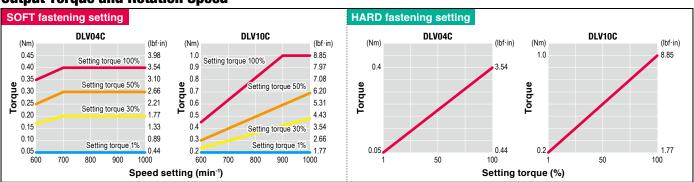
② Example without Fastening Timer

Torque: 15%

Fastening Timer: 0 sec



# **Output Torque and Rotation Speed**



\*The graph is for guidance only. The output torque range is not guaranteed.

# **External Signals**



You can input or output external signals via a signal terminal block.

Terminal No.	Function	Details	I/O	
1 (+)	+24 V DC	Built-in service power source (Capacity: Maximum 200 mA)	Service power source	
2 (-)	0 V DC	Use in power source for input/output signal common wire, or for the workpiece detection sensor, etc.		
3	Channel A	In the 2-bit input signal, specify the operation channel (CH1 to CH4)		
4	Channel B	<ul> <li>Valid only when "operation channel switching method" (No.1 CH-CHG) is set to "INPUT"</li> </ul>		
5	Forward rotation startup	Charles with subsect lines to inval	Input	
6	Reverse rotation startup	Startup with external input signal		
7	WORK	Input the workpiece signal (workpiece detection sensor output)  • With "count function" (No.11 COUNT-FNC) and "workpiece signal" (No.12 WORK-SNSR) set to ON, the workpiece signal input is valid		
8	WORK RESET	Reset operation (same as controller [WORK RESET] button		
9	Keylock	Lock the controller button operation  Disable the controller button operation, and prevent setting changes by the operator		
10	Input signal negative common wire	Connect 0 V DC*  • Service power source (terminal No.2) or external 0 V DC power source can be connected		
11	Forward rotation signal	Set output signal during forward rotation to ON		
12	Reverse rotation signal	Set output signal during reverse rotation to ON		
13	Count-up (C-UP)	Performance of normal screw tightening (torque-up) sets output signal to 0.3 seconds ON		
14	Screw fastening NG (F-NG)	If screw fastening NG, sets output signal to 0.3 seconds ON		
15	Operation channel 1 (CH1)			
16	Operation channel 2 (CH2)	Cat the channel output signal to ON during energian or cattings	Output	
17	Operation channel 3 (CH3)	Set the channel output signal to ON during operation or settings		
18	Operation channel 4 (CH4)			
19	Operation OK	If the set count screw tightening is judged to be completed and operation OK, the output signal is set to ON		
20	Operation NG	When the WORK input signal is OFF during an operation, and the operation is judged to be NG, the output signal is ON		
21	Space	Connection impossible		
22	Output signal positive common wire	Connect +24 V DC* • Service power source (terminal No.1) or external +24 V DC can be connected		

\*When PNP output

# **Optional Accessories**

screw fastening machines

Connects controller and screwdriver

