# C Series (Current control Type) Model DLV04C/10C

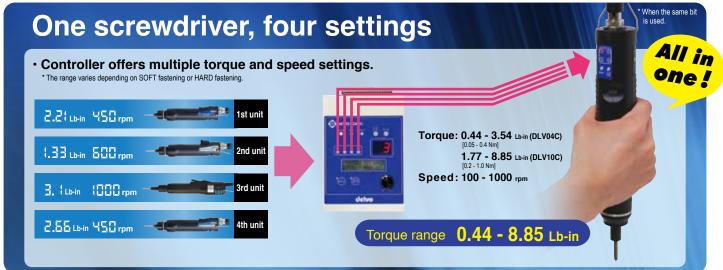


For Machine Screws #1 - #4 (1.2 - 4.0 mm)

#### **Features**

- · Fastening values are easily set in the controller
- Current Controlled Torque System suitable for screw fastening work in different torque settings
- · Low-voltage brushless motor
- ESD (electrostatic discharge) protection structure
- · For both hand-held and automatic machines
- Controller has built-in screw fastening counting function.





### **Specifications**

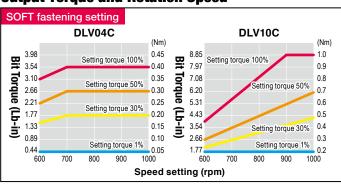
	Model	Bit	CE/UL	DLV04C10L-AY K	DLV10C10L-AY K				
	Power Source			DCC0101X-AZP					
	Torque Adjustment			Adjustment from 1 to 100% in 1% increments					
	Torque	SOFT fastening setting (1000 min <sup>-1</sup> setting)		0.4 - 3.5 (0.05 - 0.4)	1.8 - 8.9 (0.2 - 1.0)				
Electric		SOFT fastening setting (600 min <sup>-1</sup> setting)		0.4 - 3.1 (0.05 - 0.35)	1.8 - 4.0 (0.2 - 0.45)				
	Lb-in (Nm)	HARD fastening setting		0.4 - 3.5 (0.05 - 0.4)	1.8 - 8.9 (0.2 - 1.0)				
S	Free Speed SOFT fastening setting			600 - 1000					
윱	rpm	HARD fastening setting		100 - 1000					
crewdriver	Screw Size	inch thread		#1 - #3	#2 - #4				
Ž.	(for reference)	metric coarse thread		1.2 - 3.0 mm	1.8 - 4.0 mm				
*	Bit Type		NK35 (OD6.35 mm [1/4"] Hex. Shank)						
	Input Voltage			24 V DC					
	Weight lbs (g)		0.82 (370)						
	Rated Operation			ON: 0.5 seconds / OFF: 3.5 seconds					

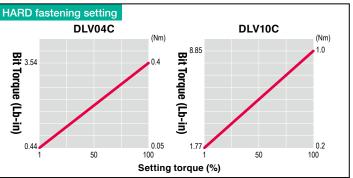
Please contact us for 4 mm bit type ("M" Bit) of CE/UL models.

Model	DCC0101X-AZ P*	
Input Voltage	AC100 - 240 V AC, 50/60 Hz	
Operation Channel	Torque and speed setting in 4-channel memory	
Function	Can switch to any operation channel	
Count Function	Counts the number of screws fastened	
	Workpiece detector can be linked	
External Start up	Start up control can be enabled by external input signa	
Control Function	Start up control can be enabled by external input sign	
Input Signal Method	Photocoupler input	
	(24 V DC drive (5 mA/1 input), respond to PNP output)	
Output Signal	Photocoupler output	
Method	(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	
Weight lbs (g)	2.4 (1100)	
Standard Accessory	80" (2 m) cord with UL three-prong plug.	
	Input Voltage Operation Channel Function Count Function  External Start up Control Function Input Signal Method  Output Signal Method Service Power Source Power consumption  Weight   lbs (g)	

DCC0101X-AZN with NPN output also available

### **Output Torque and Rotation Speed**





<sup>\*</sup>The graph is for guidance only. The output torque range is not guaranteed.

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



Torque is adjusted by turning the adjustment ring at the end of the screwdriver.

#### Conventional



The speed of transformerless type screwdrivers is fixed for each series.

Torque is set with the external controller. No need to adjust the screwdriver body.

#### **C** Series



Speed is set with the external controller. Adjustable speeds between 100 to 1000 rpm.

#### Image of Automation



#### **Optional Accessories**



#### \* Please see page 22, 23 for details.

### **SOFT / HARD Fastening Settings**

Two fastening mode settings available.

Choose the setting based on the type of workpiece, screws, and your operating conditions.

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.

#### **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	<ul> <li>Use power source for input/output signal common wire, or for the workpiece detection sensor, etc.</li> </ul>		
3	Channel A	In the 2-bit input signal, specify the operation channel (CH1 to CH4)		
4	Channel B	Valid only when "operation channel switching method" (No.1 CH-CHG) is set to "INPUT"		
5	Forward rotation startup	Startup with external input signal		
6	Reverse rotation startup	Startup with external input signal		
7	WORK	Input the workpiece signal (workpiece detection sensor output)  • When "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 fastening (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)		Output	
16	Operation channel 2 (CH2)	Set the channel output signal to ON during operation or settings		
17	Operation channel 3 (CH3)	Set the channel output signal to ON during operation of settings		
18	Operation channel 4 (CH4)			
19	Operation OK	If the set count screw fastening is 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	No connection		
22	Output signal positive common wire	Connect +24 V DC* • Service power source (terminal No.1) or external +24 V DC can be connected		