

Transformerless (AC)

Brush motor
Brushless motor

Miniature screw
Precision screw
Machine screw

2.6 - 8.0 mm



Delvo Brushless Type

A Series (For Automation) Model DLV30A/45A/70A Non-CE



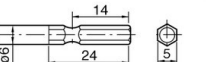
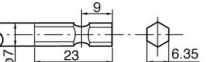
Features

For automatic assembly robot

- Three series of screwdrivers can be mounted on the XY robot
- Automatic screw tightening achieves a labor-saving or unattended process
- Long-life brushless motors are incorporated in the electric screwdrivers
- Standard coupling, flange coupling, and left-hand thread coupling are available for installation
- The electric screwdriver generates the torque-up signal
- The screwdrivers can be connected to a sequencer to control starting, forward rotation, and reverse rotation
- An electrical noise preventive measure is employed to avoid malfunction. Each input/output signal is insulated from a screwdriver's internal circuit by a photocoupler.

Specifications

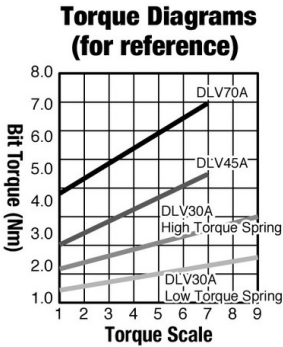
Specifications

		Low Speed	Standard	High Speed	Low Speed	Standard	Low Speed	
Electric Screwdriver	Model: Bit	Standard coupling	DLV30A06A-N(AA) : J	DLV30A12A-N(AA) : J	DLV30A20A-N(AA) : J	DLV45A06A-N(AA) : K	DLV45A12A-N(AA) : K	DLV70A06A-N(AA) : K
		Coupling with flange	DLV30A06A-F(AA) : J	DLV30A12A-F(AA) : J	DLV30A20A-F(AA) : J	DLV45A06A-F(AA) : K	DLV45A12A-F(AA) : K	DLV70A06A-F(AA) : K
		Coupling with M41 screw	DLV30A06A-M(AA) : J	DLV30A12A-M(AA) : J	DLV30A20A-M(AA) : J	DLV45A06A-M(AA) : K	DLV45A12A-M(AA) : K	DLV70A06A-M(AA) : K
	Input Voltage	100 V AC, 50/60 Hz						
	Torque (Nm [lbf-in])	Low Torque Spring*1	0.4 - 1.6 [3.5 - 14.2]			2.0 - 4.5 [17.7 - 39.8]		3.8 - 7.0 [33.6 - 62.0]
		High Torque Spring*2	1.2 - 3.0 [10.6 - 26.6]					
	Free Speed (min ⁻¹)		650	1200	2000	650	1200	650
	Screw Size (mm)	Machine Screw	2.6 - 5.0			4.5 - 6.0		5.0 - 8.0
		Tapping Screw	2.5 - 4.0			4.0 - 5.0		4.5 - 6.0
	Mass (g [lbs])	Standard coupling	700 [1.54]			780 [1.72]		
Bit Type (mm)		Coupling with flange	760 [1.68]			840 [1.85]		
		Coupling with M41 screw	740 [1.63]			820 [1.81]		
	Power Consumption (W)	45						
	Starting Method	External input signal						
	Input signal	Start signal / Forward signal / Reverse signal (5 - 24 V DC)						
	Output signal	Torque-up signal (Voltage under 30 V DC and current 20 mA)						
	Standard Accessories	• Bit NK31 (No.2 × 6 × 70): 1 pc. • Low torque spring: 1 pc.			• Bit NK35 (No.2 × 7 × 75): 1 pc.			
	J	*3			*1: Standard Accessory *2: Installed *3: DLV30A is available upon request for use with 6.35 mm hex. shank bits.			
								

Optional Accessories

Vacuum Pickup
DLP7400 (M3/M4 screws)
DLP7400 for high torque (M5/M6 screws)
* Please see page 39 for details.

Vacuum Pump
DLP2530/2570



Screwdriver Cable Breakdown List

Power/Input Signal Cable

Color	Details
Green	Power input
Yellow	Power input
Blue	Bit earth
White	Input signal common (Vcc)
Black	Start signal input
Orange	Forward signal input
Gray	Reverse signal input

Power input voltage: 100 V AC

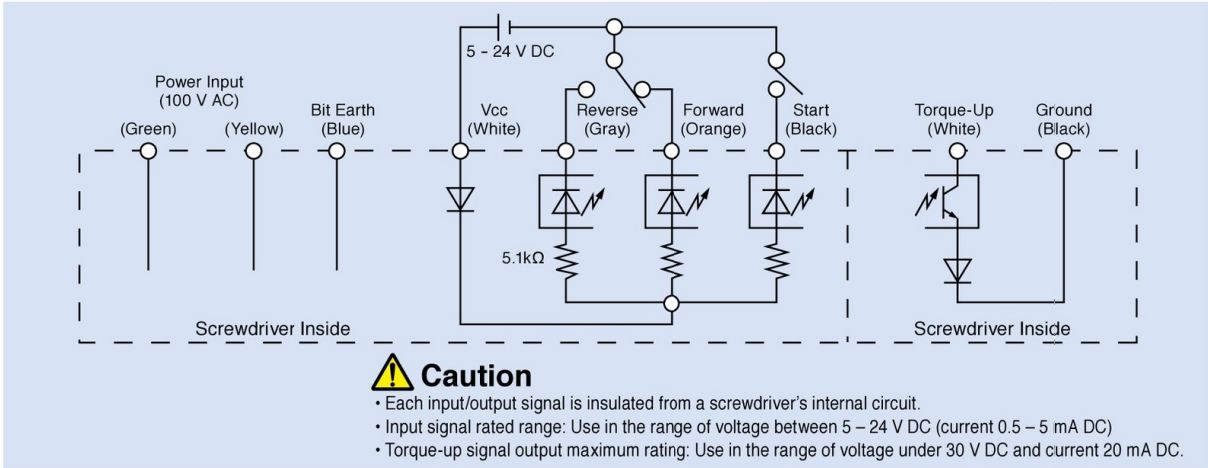
Output Signal Cable

Color	Details
White	Torque-up signal output
Black	Ground

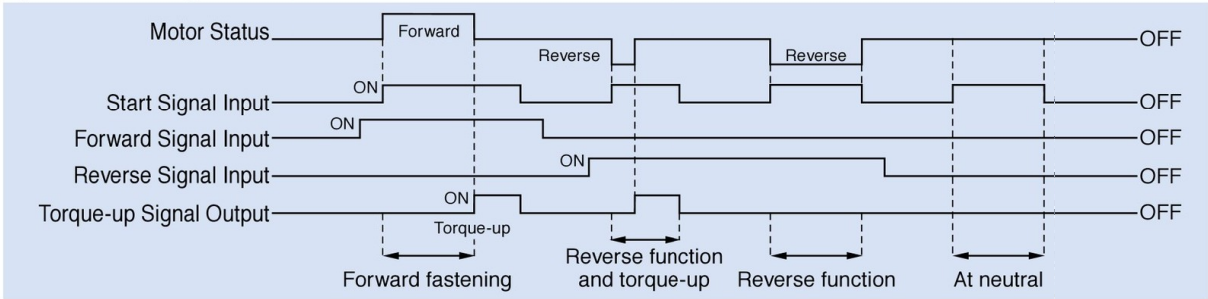
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Power Input/Output Signal Schematic Diagram



Operation Timing Chart



External Dimensions

