

## HIGH TORQUE PREMIUM BRUSHLESS, SHUT-OFF CLUTCH 40V DC Electric Screwdrivers

Delta Regis 40VDC Premium Brushless Screwdrivers pack the performance to satisfy demanding assembly applications. With torque capabilities to 15 Nm and brushless motor technology that withstands higher duty cycles, these drivers are ready to perform on production lines typically dependent on pneumatic tools. As with all Delta Regis Shut-off Clutch Screwdrivers, excellent torque repeatability is the fundamental building block that defines these models. A host of screwdriver configurations, accessories, and control options are available to make the 40VDC Series an ideal choice for production assembly across a wide range of industries.



ALL ESL628/629 INLINE DRIVERS  
INCLUDE A PISTOL GRIP ATTACHMENT  
AND TORQUE LOCK SLEEVE.

ESL628/629 Handheld Inline Drivers have powerful brushless motors to handle demanding applications. Fast versions are available to speed-up production lines that require installation of long fasteners.

### ESL6 Handheld Inline Drivers to 4.9Nm

Model Number	Start Type	Range (In.Lbs)	Range (Nm)	Speed (RPM)	Drive Type
<b>Inline Body Style, Handheld <sup>(1)</sup></b>					
ESL628	Lever	8.9 - 26.0	0.98 - 2.94	1000	1/4" hex
ESL628F	Lever	8.9 - 26.0	0.98 - 2.94	2000	1/4" hex
ESL628P	Push	8.9 - 26.0	0.98 - 2.94	1000	1/4" hex
ESL628PF	Push	8.9 - 26.0	0.98 - 2.94	2000	1/4" hex
ESL629	Lever	17.4 - 43.4	1.96 - 4.90	1000	1/4" hex
ESL629P	Push	17.4 - 43.4	1.96 - 4.90	1000	1/4" hex
Dimensions (mm): 278(L) x 39.5(dia)			Weight: 0.8 kg		

<sup>(1)</sup> ESD Safe housing available - add suffix '-ESD'



ALL ESL6\_M MODELS INCLUDE AN  
ACCESSORY SIDE HANDLE ATTACHMENT

ESL6\_M Series Screwdrivers incorporate an aluminum front collar to facilitate fixture mounting and include an accessory side handle for handheld applications.

### ESL6\_M Handheld / Fixture Mount Drivers

Model Number	Start Type	Range (In.Lbs)	Range (Nm)	Speed (RPM)	Drive Type
<b>Inline Body Style, Handheld or Fixture Mount</b>					
ESL629M	Lever	17.7 - 44.3	2 - 5	1000	1/4" hex <sup>(1)</sup>
ESL629PM	Push	17.7 - 44.3	2 - 5	1000	1/4" hex <sup>(1)</sup>
ESL630M	Lever	26.6 - 66.4	3 - 7.5	800	1/4" hex <sup>(1)</sup>
ESL630PM	Push	26.6 - 66.4	3 - 7.5	800	1/4" hex <sup>(1)</sup>
ESL640M	Lever	35.4 - 88.5	4 - 10	550	1/4" hex <sup>(1)</sup>
ESL640PM	Push	35.4 - 88.5	4 - 10	550	1/4" hex <sup>(1)</sup>
ESL650M	Lever	53.1 - 132.8	6 - 15	350	1/4" hex <sup>(1)</sup>
ESL650PM	Push	53.1 - 132.8	6 - 15	350	1/4" hex <sup>(1)</sup>
Dimensions (mm): 297(L) x 46.2(dia)			Weight: 1.2 kg		

<sup>(1)</sup> Standard bit holder is 1/4" hex quick change type.  
For optional 3/8" square drive, add suffix '-SQ'

40VDC Series drivers are capable of developing high torques - side handles are included where suitable. We recommend mounting in a torque reaction arm for ultimate ergonomics and operator safety. See pages 26-27 for torque arms.



ESP6 Pistol Grip tools come standard with the cable connection at the bottom of the handle - top rear cable connection is optional. An accessory side handle is included with each tool.

## ESP6 Brushless Pistol Grip Drivers

Model Number <sup>(1)</sup>	Start Type	Range (In.Lbs)	Range (Nm)	Speed (RPM)	Drive Type
<b>Pistol Grip Body Style</b>					
ESP620	Trigger	17.7 - 44.3	2 - 5	1000	1/4" hex
ESP620-SQ	Trigger	17.7 - 44.3	2 - 5	1000	3/8" square
ESP630	Trigger	26.6 - 66.4	3 - 7.5	800	1/4" hex
ESP630-SQ	Trigger	26.6 - 66.4	3 - 7.5	800	3/8" square
ESP640	Trigger	35.4 - 88.5	4 - 10	550	1/4" hex
ESP640-SQ	Trigger	35.4 - 88.5	4 - 10	550	3/8" square
ESP650	Trigger	53.1 - 132.8	6 - 15	350	1/4" hex
ESP650-SQ	Trigger	53.1 - 132.8	6 - 15	350	3/8" square
Dimensions (mm): 270(L) x 169(H) x 48(dia)				Weight: 1.25 kg	

<sup>(1)</sup> Pistol Grip tool has cable connection in bottom of handle as standard. For top rear connection, add suffix 'U' to model number.

## Controller & Slow-Start/Output Module

Controller model BECT640HL provides the power required to run all models of high torque 40V DC Brushless Series Screwdriver. This includes tool models ESL628(F/P/PF) thru ESL650M(PM) and models ESP620-650. CE/RoHS/ETL Approved. For applications requiring Batch Counting and I/O capability, please see the BECT640-SSO Controller (pages 14-15).



BECT640HL  
HI/LO SPD CONTROLLER



ECT6-SSOB  
SLOW-START MODULE

Model Number	Outlets	Speeds	Tool Connector	Output	Input	Dimensions L x W x H (mm)	Weight (kg)	Use only with Screwdriver Models
BECT640HL	1	Hi/Lo	6 pin	40/30V DC	100-240V AC	210 x 118 x 85	1.8	All 40V DC Brushless

Power supply shipped with standard North American cordset. For EU cord, add suffix 'E'; for UK cord, add suffix 'UK'.

The ECT6-SSOB control module adds "Adjustable Slow-Start" and "Output Signal" capability to a 40VDC brushless tool. This control module plugs in-line between the BECT640HL controller and any model of 40VDC brushless driver.

Model Number	Use with Controller Model	Slow Start Time	Slow Start Speed	Output Signals Available (Transistor-open collector)	Cable Length	Dimensions (mm)
ECT6-SSOB	BECT640HL	0.1 ~ 5 sec.	30-100% full spd	Run/Clutch/Reverse	0.3m	58 x 95 x 35

## Accessories



ESL6\_M ANGLE HEAD ATTACHMENT WITH  
OPTIONAL SWIVEL BAIL

Include a 3/8" sq. drive Angle Head Attachment on any lever start ESL6\_M screwdriver by adding suffix '/RA' to the part number (eg ESL650M/RA). For an Angle Head with Swivel Bail to support the tool from a balancer, add suffix '/RAS'.

Angle Head	For Tool Model:	Use Part No:
 90 degree angle head	ESL628(F)	DR80-10160A
	ESL629	DR80-10160A
Lever start only - max torque reduced		

Cable Assemblies	Cable length	Part No
 6-pin cable with metal ring	2m / 6.5 ft (Std)	DR96-10016M
	3m / 9.8 ft	DR96-10018M
	6m / 19.7 ft	DR96-10020M

## COUNTING CONTROLLER - 40V / 32V BRUSHLESS DRIVERS

### Fasten | Count | Verify

Add functionality and error-proofing to your Delta Regis Brushless Screwdriver with the BECT640-SSO Counting Controller. This controller offers a host of options including Slow Start, Batch Counting, and OK/NG Rundown Indication based on the screwdriving cycle occurring within a predefined time window. An externally accessible I/O connection provides the user with a signal interface. Outputs are available for rundown OK, rundown NG, and batch complete. External switches may be wired to the input for remote enable (part in position) and remote clear (reset batch count).

- Selectable **Slow Start** Speed and Time
- Large LED Display of Screw Count Values
- Externally Accessible **I/O Connections**
- **Programmable Batch Counting** with Audible Buzzer indicating batch complete
- **Programmable Time Window** for comparison with actual fastening cycle time - LED's indicate **OK/NG** rundown cycle
- Lock to limit access to program modifications
- Works with 40V and 32VDC Brushless Drivers (Optional adapter cable req'd for 32V tools)
- ETL / CE / RoHS Compliant



### Counting Controller Model & Specifications

Model Number	Outlets	Speeds	Approvals	Output	Input	Dimensions L x W x H (mm)	Weight (kg)
BECT640-SSO	1	Hi/Lo	CE/RoHS/ETL	40/32/24V DC, 220W	100-240V AC, 6.3A	248 x 130 x 100	2.5
Use with driver models:		CESL610-612, CESL623-624(P/F/PF), ESL628-629(P/F/PF), ESL629M-650M(PM), ESP620-650					

Power supply shipped with standard North American cordset. For EU cord, add suffix 'E'; for UK cord, add suffix 'UK'.

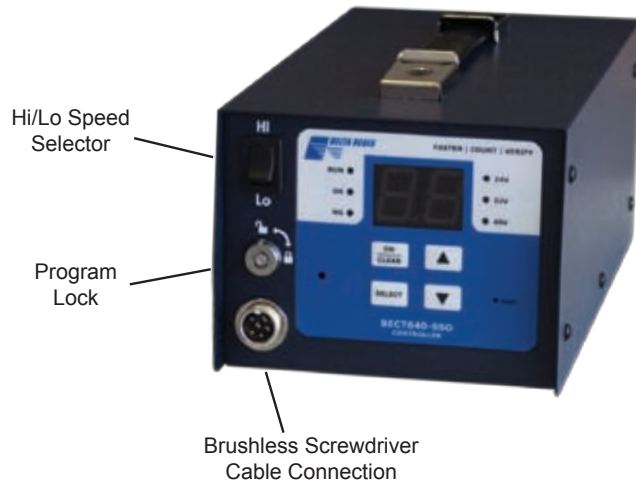
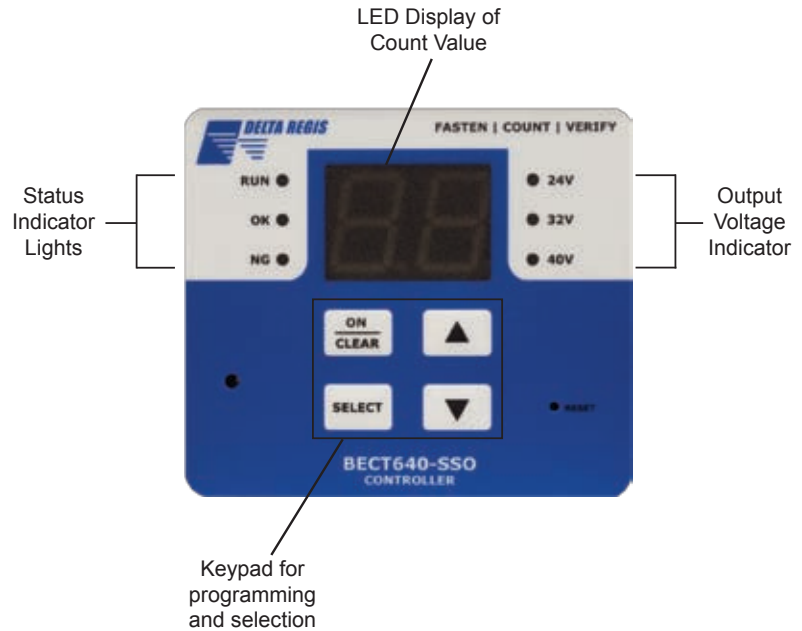
Features	
Slow Start Time Adjustment	0 - 9.9 sec
Slow Start Speed Adjustment	30 - 100%
Count (per batch)	1 - 99
Time Window Setting Range (min/max)	0 - 9.9 sec
Audible Alert (selectable)	Good/NG/Batch OK

Inputs	Outputs (NPN and relay)
1. Remote Enable	1. Rundown OK
2. Clear (Reset) Batch Count	2. Rundown NG
	3. Batch Complete

Inputs require an external switch (dry contact) only. A 12 VDC voltage supply is available to power the output circuit, if required.

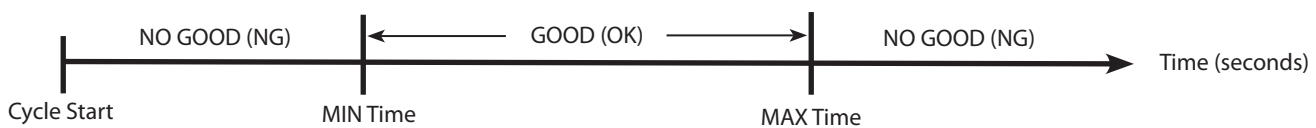
## BECT640-SSO Controller Overview

Parameters are set-up on the BECT640-SSO using the four button keypad and LED display panel. A simple program loop provides access to settings for slow start speed and time, batch count quantity, and min/max allowable rundown times. During normal operation, the large two-digit display shows the current screw count value and also provides visual LED indication of whether the rundown was Good or No Good based on the time window parameters that are programmed into the controller by the user.



DIP Switch for optional functionality

Input / Output Connections:  
12VDC supply (if required to power external circuit)  
OK / NG / OK ALL (sinking outputs - 24VDC, 10mA max)  
OK / NG / OK ALL (dry contact outputs - 60V, 400mA max)  
ENABLE input (requires normally closed switch contact)  
CLEAR input (requires normally open switch contact)  
COM - 0VDC (supply, input and sinking output common)



If the fastening cycle completes (clutch trips) within the programmed time window, the rundown cycle will be accepted as GOOD (OK) and the batch count will increment.