



CESL8/9 40VDC BRUSHLESS SCREWDRIVERS

1-12 Nm
9-106 in.lb

Delta Regis 40VDC Premium Brushless Screwdrivers pack the performance to satisfy demanding assembly applications. With torque capabilities to 25 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.



CESL828/829 drivers have powerful brushless motors to handle demanding applications. Fast versions are available to speed-up production lines that require installation of long fasteners.

CESL8 Handheld Inline Drivers

Model Number ⁽¹⁾	Start Type	Range (In.Lbs)	Range (Nm)	Speed (RPM)	Drive Type
<i>Inline Body Style, Handheld⁽¹⁾</i>					
CESL828	Lever	8.9 - 26.0	0.98 - 2.94	1000	1/4" hex
CESL828F		8.9 - 26.0	0.98 - 2.94	2000	
CESL829		17.4 - 43.4	1.96 - 4.90	1000	
CESL828P	Push	8.9 - 26.0	0.98 - 2.94	1000	1/4" hex
CESL828PF		8.9 - 26.0	0.98 - 2.94	2000	
CESL829P		17.4 - 43.4	1.96 - 4.90	1000	
Dimensions (mm): 278(L) x 39.5(dia)			Weight: 0.8 kg / 1.76lbs		

Tool Includes



⁽¹⁾ ESD Safe housing available - add suffix '-ESD'



Tool Includes



Delta Regis CESL9 Series Screwdrivers are engineered to perform in tough applications. The slim design and threaded metal front end make it an ideal choice for fixture mount and auto-screwfeed applications. A powerful motor and integrated fan keep the driver running cooler, particularly on soft joint and higher cycle applications. 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.

CESL9 Handheld/Fixture Mount

Model Number	Start Type	Range (In. Lbs)	Range (Nm)	Speed (RPM)	Bit Type
CESL935	Lever	18-53	2-6	1000/750	1/4" hex
CESL935F		18-53	2-6	2200/1650	
CESL945		27-79	3-9	1000/750	
CESL955		53-106	6-12	880/660	
CESL935P	Push	18-53	2-6	1000/750	1/4" hex
CESL935PF		18-53	2-6	2200/1650	
CESL945P		27-79	3-9	1000/750	
CESL955P		53-106	6-12	880/660	
Dimensions (mm): 306(L) x 41.4(dia) / (in): 12(L) x 1.6(dia)				Weight: 1.03kg / 2.3lbs	

HIGH TORQUE PREMIUM BRUSHLESS, SHUT-OFF CLUTCH



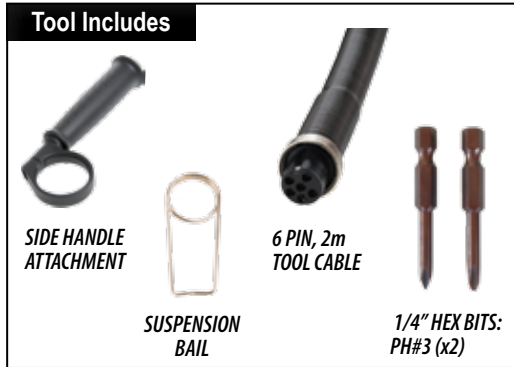
2-25 Nm
18-221 in.lb



3/8" SQUARE DRIVE
ADD SUFFIX '-SQ'

CESL8_M Series Screwdrivers incorporate an aluminum front collar to facilitate fixture mounting and include an accessory side handle for handheld applications.

Tool Includes



SIDE HANDLE
ATTACHMENT

SUSPENSION
BAIL

6 PIN, 2m
TOOL CABLE

1/4" HEX BITS:
PH#3 (x2)

CESL8_M Handheld / Fixture Mount

Model Number (1)	Start Type	Range (In.Lbs)	Range (Nm)	Speed (RPM)	Drive Type
Inline Body Style, Handheld or Fixture Mount					
CESL835M	Lever	18 - 53	2 - 6	1000/750	1/4" hex (2)
CESL845M		27 - 79	3 - 9	800/600	
CESL855M		36 - 106	4 - 12	550/400	
CESL855FM		36 - 106	4 - 12	880/660	
CESL865M		53 - 159	6 - 18	350/250	
CESL865FM		53 - 159	6 - 18	600/450	
CESL875M		71 - 221	8 - 25	350/250	
Dimensions (mm): 297(L) x 46.2(dia) / (in): 11.7 (L) x 1.81 (dia)					
Weight: 1.25 kg / 2.75lbs (CESL875, 1.45kg / 3.2lbs)					

(1) ESD Safe housing available - add suffix '-ESD'

(2) 3/8" Square Drive Available - add suffix '-SQ'



TOP CONNECTION
ADD SUFFIX '-U'

Tool Includes



6 PIN, 2m
TOOL CABLE

SUSPENSION BAIL

1/4" Hex ONLY,
BITS: PH#3 (x2)

CESP8 Brushless Pistol Grip Drivers

Model Number (1)	Start Type	Range (In.Lbs)	Range (Nm)	Speed (RPM)	Drive Type	
Pistol Grip Body Style						
CESP835	Trigger	18 - 53	2 - 6	1000/750	1/4" hex	
CESP835-SQ		18 - 53	2 - 6	1000/750	3/8" square	
CESP845		27 - 79	3 - 9	800/600	1/4" hex	
CESP845-SQ		27 - 79	3 - 9	800/600	3/8" square	
CESP855		36 - 106	4 - 12	550/400	1/4" hex	
CESP855-SQ		36 - 106	4 - 12	550/400	3/8" square	
CESP865		53 - 159	6 - 18	350/250	1/4" hex	
CESP865-SQ		53 - 159	6 - 18	350/250	3/8" square	
Dimensions (mm): 270(L) x 169(H) x 48(dia)						
Weight: 1.2 kg / 2.64lbs						

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

(1) ESD Safe housing available - add suffix '-ESD'

CESP8 Pistol Grip tools come standard with the cable connection at the bottom of the handle - top rear cable connection is optional.

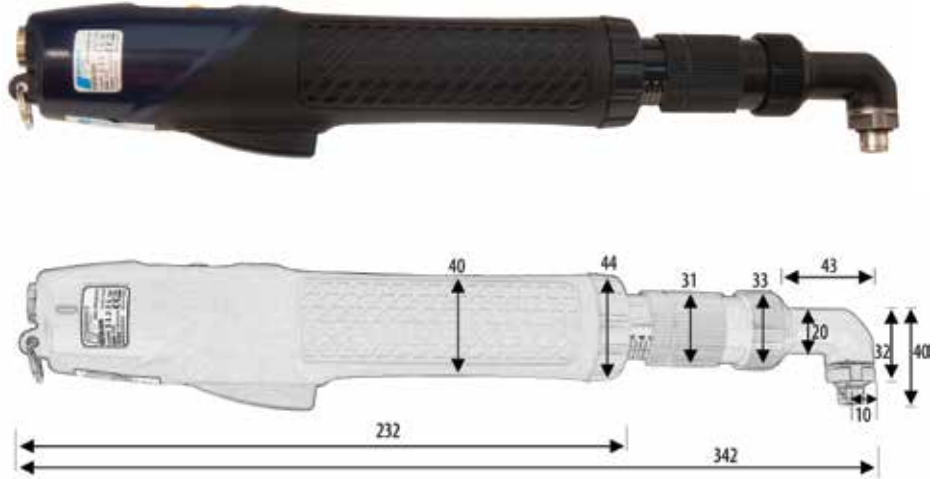
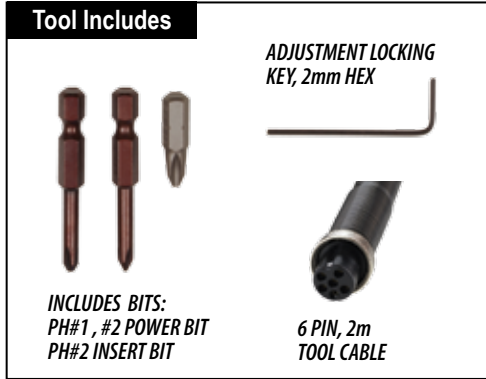


CESL8 40VDC RIGHT ANGLE DRIVERS

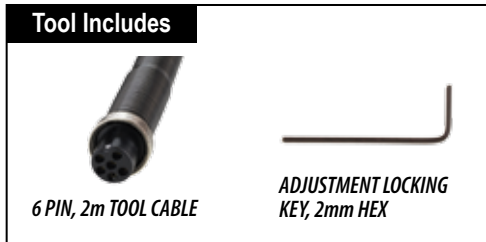
1-20 Nm
9-177 in.lb

The Delta Regis 40VDC 90° Right Angle Drivers are a combination of a standard 40V high torque inline screwdriver with an added angle head attachment for access to tight areas.

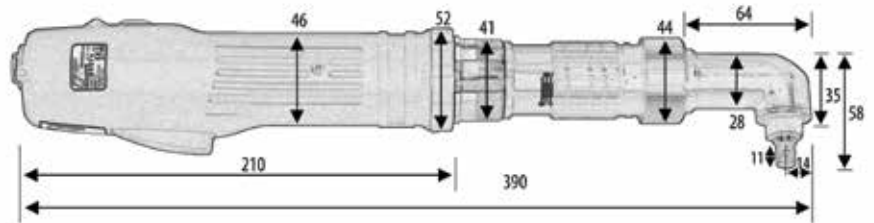
1/4" Hex Drive Models CESL828-829/RA, 0.98-3.61 Nm (8.9-32 In.Lbs)



CESL828-829/RA: Right Angle Driver Dimensions (mm)



3/8" Sq. Drive Models CESL835M-875M/RAB, 2-20 Nm (18-177 In.Lbs)



CESL8_M/RAB Right Angle Driver Dimensions (mm)

CESL8_M/RAB / RA Right Angle Drivers						
Model No. (Standard Housing)	Model No. (w/ ESD Housing)	Range (In.Lbs)	Range (Nm)	Speed (RPM)	Drive Type ⁽¹⁾	Weight kg / lbs
Right Angle Head Driver, 3/8" square drive, optional swivel bail						
CESL828/RA	CESL828-ESD/RA	8.9 - 19	0.98 - 2.15	1000	1/4" hex	0.77 / 1.7
CESL828F/RA	CESL828F-ESD/RA	8.9 - 19	0.98 - 2.15	2000		
CESL829/RA	CESL829-ESD/RA	17.4 - 32	1.96 - 3.61	1000		
CESL835M/RAB	CESL835M-ESD/RAB	18 - 45	2 - 5	1000	3/8" square	1.77 / 3.9
CESL845M/RAB	CESL845M-ESD/RAB	27 - 67	3 - 7.5	800		
CESL855M/RAB	CESL855M-ESD/RAB	36 - 90	4 - 10	550		
CESL865M/RAB	CESL865M-ESD/RAB	53 - 145	6 - 15	350		
CESL875M/RAB	CESL875M-ESD/RAB	71 - 177	8 - 20	350		

⁽¹⁾ 1/4" hex available. Please contact our sales department for further inquiries.

40VDC BRUSHLESS CONTROLLERS & ACCESSORIES



There are two standard Hi/Lo Speed Controllers available for the 40VDC Brushless Drivers. The BECT640HL is used primarily for screwdriver models CESL828-829 (F/P/PF). The high power output model BECT940HL is used for the higher torque 40VDC tools. CE/ROHS/ETL Approved.



BECT640HL
HI/LO SPEED CONTROLLER

Power Supplies / Controllers

Model Number	Outlets	Speeds	Tool Connector	Output	Input	Dimensions L x W x H (mm)	Weight kg / lbs	Use only with Screwdriver Models
BECT640HL	1	Hi/Lo	6 pin	40/30VDC, 220W	100-240VAC, 6.3A	220 x 134 x 85	1.8 / 4	CESL828-829(P/F)
BECT940HL	1	Hi/Lo	6 pin	40/30VDC, 360W	100-240VAC, 6.3A	220 x 134 x 85	1.8 / 4	CESL835-875M(PM) CESP835-865, CESL9

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

Accessories

Select driver model no. on the right, follow column down the chart; X signifies an appropriate accessory.

	CESL828 (F) CESL829	CESL828P (PF) CESL829P	CESL828 (F) - ESD CESL829 - ESD	CESL828P (F) - ESD CESL829P - ESD	CESL835M - 875M	CESL835PM - 875PM	CESP835 - 865	CESL835M / RA - CESL865M / RA
Torque Lock Sleeve - covers the torque adjusting nut to deter tampering (*1 included with 828/829 drivers)								
DR80-20142C (Clear) *	X	X						
DR80-20142E (ESD safe) *			X	X				
DR80-20142M (Metal)	X	X	X	X				
Pistol Grip Attachment - reconfigures an in-line screwdriver for horizontal fastener installation								
DR80-PG628/9	X							
DR80-PG628/9ESD			X					
DR80-PG628/9P		X						
DR80-PG628/9PESD				X				
Tool Holster - fasten to the edge of a workbench and park the screwdriver when not in use								
DR80-10136	X	X	X	X				
DR80-TH8-9	X	X	X	X				
Cable Assemblies - for use with all 40VDC CESL8/CESP8 Screwdrivers running on std hi/lo speed controllers								
DR96-10016M	2m (6.5 ft), 6 pin, Standard Cable (included with each screwdriver)							
DR96-10018M	3m (9.8 ft), 6 pin, Optional Long Cable							
DR96-10018M/C	3m (9.8 ft), 6 pin, Coiled Cable with 0.4m whip ends							
DR96-10020M	6m (19.6 ft), 6 pin, Optional Long Cable							
Shielded Tool Cables - use with Count/Verify Controllers and ECT8-SSOB Advanced I/O Module								
DR96-840X3MSH	3m (9.8 ft), 6 pin, Shielded Cable (included with BECT840/940-SSO, ECT8-SSOB)							
DR96-840X5MSH	5m (16 ft), 6 pin, Shielded Cable							
DR96-840X10MSH	10m (32 ft), 6 pin, Shielded Cable							



ESD

Non-ESD



DR80-PG628/9



DR80-TH8-9



Standard

Shielded



COUNTING CONTROLLER: 40V/32V BRUSHLESS DRIVERS

Add error-proofing to your Delta Regis brushless driver with the BECT832/840/940-SSO Counting Controller. Available functions include Slow Start, Batch Counting, and OK/NG Rundown Indication based on the screwdriving cycle occurring within a predefined time window. An I/O terminal strip provides the interface to outputs for rundown OK, rundown NG, and batch complete. External switches can be wired to the input terminals for remote screwdriver enable/disable, remote start/reverse, and clear (reset batch count).

Features

- 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
- Optional **Timed Auto-Reverse** for applications requiring back-out after fastening
- Locks to limit access to program modifications
- BECT832-SSO operates 32V CESL8 Screwdrivers, BECT840/940-SSO run 40V CESL8 Series Drivers
- ETL / CE / RoHS Compliant



Counting Controller Model & Specifications

Model Number	Outlets	Speeds	Approvals	Output	Input	Dimensions L x W x H (mm) / (in)	Weight kg / lbs
BECT832-SSO	1	Hi/Lo	CE/RoHS/ETL	32/24V DC, 60W	100-240V AC, 1.2A	200 x 130 x 100 7.9 x 5.1 x 3.9	1.6 / 3.5
BECT840-SSO				40/32/24V DC, 220W		248 x 130 x 100	
BECT940-SSO				40/32/24V DC, 360W	100-240V AC, 6.3A	9.8 x 5.1 x 3.9	2.5 / 5.5
Use with driver models:		BECT832-SSO for 32V screwdrivers only: CESL810-812, CESL823-824(P/F/PF), CESL827(P) BECT840-SSO: CESL828-829(P/F/PF) + all 32V CESL8 drivers (DR96-40TO32V-WHIP cable req'd when using 32V drivers)) BECT940-SSO: CESL835M-875M(PM), CESP835-865, CESL935-955(P/F/PF)					

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

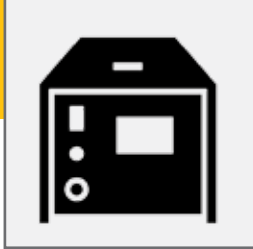
Features	
Slow Start Time Adjustment	0 - 9.9 sec
Slow Start Speed Adjustment	30 - 100%
Count (per batch)	1 - 99
Time Window Setting Range (min/max)	0 - 9.9 sec
Audible Alert (selectable)	Good/NG/Batch OK
Timed Auto-Reverse after Clutch-out	0 - 9.9 sec

Inputs (Dry switch contact req'd)
1. Remote Start
2. Remote Reverse
3. Disable Screwdriver
4. External Confirm
5. Enable at Batch Start
6. Remote Clear

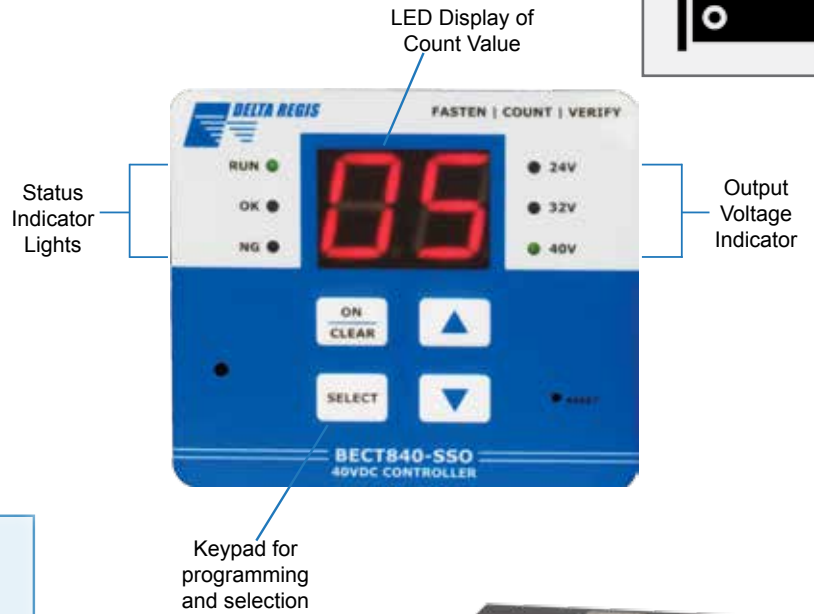
Outputs (MOS relay) (max. 40VDC, 250mA)
1. Rundown OK
2. Rundown NG
3. Batch Complete

Inputs require an external switch (dry contact) only. A 24 VDC voltage supply is available to power the output circuit, if required.

BECT840-SSO CONTROLLER OVERVIEW



Parameters are set-up on the BECT832/840/940-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 have been programmed into the controller.



REMOTE SEQUENCING OPTION (-3SL)

In some applications, there may be a requirement to remotely select from one of the available sequences that have been programmed into the controller. The '-3SL' model number suffix replaces the standard remote start/reverse inputs with a remote sequence selection input option. With this option, one of 3 sequences may be selected by providing a remote input from a PLC or external switches. To order a BECT840-SSO controller with this option, use model number BECT840-SSO-3SL. Please contact us for further details.



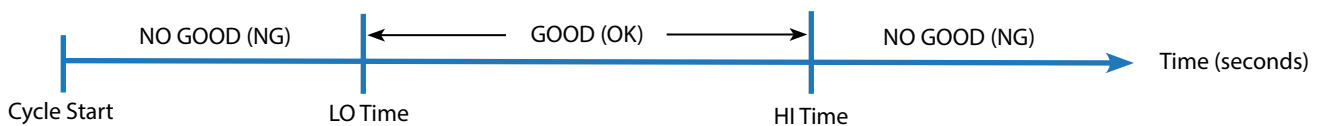
DIP Switch for optional functionality

PWR SUPPLY AVAILABLE:
24VDC, 1A / COM (0 VDC)
INPUTS:
ENABLE/DISABLE
REMOTE START/REVERSE
CLEAR, CONFIRM
OUTPUTS:
OK / NG / OK ALL

BECT840/940-SSO include an output voltage selector switch for use with 32V screwdrivers



Plug-in I/O connector has screw terminals for connecting wiring



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. A rundown outside the time parameters will result in a NG output.



ECT8-SSO SLOW START & I/O MODULE

Delta Regis ECT8-SSO Series Control Modules are ideal for processes that require more functionality than is provided by the standard hi/lo speed controller. The module installs in-line between the controller and the driver. It has a whip cable which plugs into the controller, and a 6 pin connector to accept the screwdriver cable. An LED display and programming buttons are provided for set-up of slow start parameters. Depending on the model, either basic output signals or advanced I/O connections are available for interfacing to external equipment.

ECT8-SSOA / ECT8-SSOB Advanced Multi-Function Input/Output Modules



Push buttons and LED display for setting slow start parameters. Indicator lights show status of input / output signals.



Bypass switch to disable control functionality.



ECT8-SSO Module plugs in-line between a CESL8/9 Series Driver and a standard 32V or 40VDC Hi/Lo Speed Controller.

(1) 3M long shielded tool cable is included with each ECT8-SSOA/B module to use in place of the standard unshielded tool cable that is included with the driver.



DIP switch settings control specific I/O functions



INPUTS (dry switch contact required)
 - Remote Start and Remote Reverse
 - Remote Enable/Disable

OUTPUTS (MOS relay, max. 40VDC, 250mA)
 - Tool Started/Running
 - Clutch Tripped
 - Tool in Reverse

Model Number	Use with Screwdriver Models	Compatible with Controller Models
ECT8-SSOA (32V Tools)	CESL810-812, 823-827(P/F/PF)	BECT620C/IC, BECT820
ECT8-SSOB (40V Tools)	CESL828-829(P/F/PF), CESP835-865, CESL835M-875M(PM), CESL935-955(P/F/PF)	BECT640HL, BECT940HL

Features		Inputs (dry contact switch req'd)	Relay Outputs (max. 40VDC, 250mA)	Dimensions L x W x H
Slow Start Time Adjustment	0 - 9.9 sec	1. Remote Start	1. Tool Started/Running	103 x 100 x 32 mm 4.1 x 3.9 x 1.3 in Weight: 180 g / 0.4 lbs
Slow Start Speed Adjustment	~ 30 - 100%	2. Remote Reverse	2. Clutch Activated	
Max. Run Time Setting	0 - 9.9 sec	3. Remote Enable/Disable	3. Tool in Reverse	

ECT8-SSOC / ECT8-SSOD Basic Modules with Slow Start & Output Signals

Basic modules are available for applications requiring only slow start and/or output signals that can be interfaced with external equipment. The slow start function offers the same adjustments as the advanced module shown above. The output signals (tool running/clutch activated/tool in reverse) are via dry relay contacts (40VDC, 250mA max).

Model Number	Use with Screwdriver and Controller Models	Relay Outputs (max. 40VDC, 250mA)
ECT8-SSOC (32V Tools)	CESL810-812, 823-827(P/F/PF) ; BECT620C/IC, BECT820	Tool Running, Clutch Activated, Tool in Reverse
ECT8-SSOD (40V Tools)	CESL828-829(P/F/PF), CESP835-865, CESL835M-875M(PM), CESL9 ; BECT640/940HL	