

CESL8 32VDC PREMIUM BRUSHLESS, SHUT-OFF CLUTCH

.02-2.94 Nm 0.2-26 in.lb

The Delta Regis CESL8 Series Premium Brushless Screwdrivers provide the ultimate combination of ergonomics, precision, performance and environmental cleanliness to the installation of fasteners. The quiet, brushless DC motor does not create the carbon dust generated by the brushes in a conventional DC motor. The motor's low power consumption results in a tool that runs cooler, even under demanding applications.



The CESL8 Series 32VDC Brushless Screwdriver can be used with either the standard BECT620C/820 Hi/Lo Speed Controller or with our BECT832-SSO FASTEN/COUNT/VERIFY Controller for applications requiring batch counting and input/output interface with external equipment.



Features

- Precise Torque Control, Low Torque Reaction
- Quiet, Brushless DC motor means no carbon dust 3 year motor warranty.
- Compact body design results in exceptional manouverability and operator comfort
- Less heat build-up and higher duty cycle capabilities than conventional brush motors
- 32V DC models available with ESD or Non-ESD housing
- CE, RoHS Compliant

32VDC Brushless Screwdriver Models										
Model No. w/ESD Housing	Model No. without ESD	Start Type	Range (In.Lbs)	Range (Nm)	Speed (RPM) Hi	Speed (RPM) Lo	Driver Bit Type	Length mm / in	Diameter mm / in	Weight g / Ibs
CESL810-ESD (2)	-		0.2 - 3.1	0.02 - 0.35	1000	700				
CESL810S-ESD (2)	-	Lever	0.2 - 3.1	0.02 - 0.35	500	350	1/4" hex	185 / 7.3	32 / 1.3	385 / 0.8
CESL811-ESD (2)	CESL811 ⁽²⁾	Level	0.4 - 6.2	0.05 - 0.69	1000	700		185 / 7.3		30370.0
CESL812-ESD (2)	CESL812 ⁽²⁾		0.9 - 8.7	0.10 - 0.98	1000	700				
CESL823-ESD	CESL823		1.3 - 10.5	0.15 - 1.18	1000	700		245 / 9.6	36 / 1.4	
CESL823F-ESD (1)	CESL823F ⁽¹⁾	Lovor	1.3 - 10.5	0.15 - 1.18	2000	-				
CESL824-ESD	CESL824	Lever	2.6 - 16.5	0.29 - 1.86	1000	700				
CESL824F-ESD ⁽¹⁾	CESL824F ⁽¹⁾		2.6 - 14.7	0.29 - 1.67	2000	-				
CESL823P-ESD	CESL823P		1.3 - 10.5	0.15 - 1.18	1000	700	1/4" hex			520 / 1.1
CESL823PF-ESD ⁽¹⁾	CESL823PF ⁽¹⁾	Push	1.3 - 10.5	0.15 - 1.18	2000	-				
CESL824P-ESD	CESL824P	FUSII	2.6 - 16.5	0.29 - 1.86	1000	700				
CESL824PF-ESD ⁽¹⁾	CESL824PF ⁽¹⁾		2.6 - 14.7	0.29 - 1.67	2000	-				
CESL827-ESD (1)(3)	CESL827 (1)(3)	Lever	8.7 - 26.0	0.98 - 2.94	1200	900				
CESL827P-ESD (1)(3)	CESL827P (1)(3)	Push	8.7 - 26.0	0.98 - 2.94	1200	900	1/4″ hex	278 / 10.9	39.5 / 1.6	800 / 1.8

⁽¹⁾ Use controller model BECT820 with these screwdrivers.

⁽²⁾ Driver available with optional 4mm round (winged bit) bit holder. Add suffix '-4mm' to model number.

⁽³⁾ CESL827 is for hard joint, non-prevailing torque applications below 20% duty cycle. Use 40V model CESL828 for more demanding requirements.

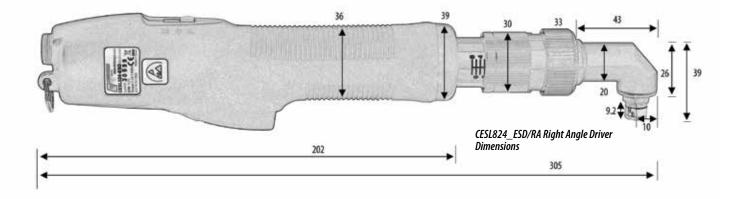


32VDC RIGHT ANGLE DRIVERS

0.1-1.3 Nm 0.9-12 in.lb



-RA Right Angle Drive	ers				
Model No. (Standard Housing)	Model No. (w/ ESD Housing)	Range (In.Lbs)	Range (Nm)	Speed (RPM)	Weight g / Ibs
CESL823/RA	CESL823-ESD/RA	0.9 - 7.3	0.11 - 0.83	1000/700	
CESL823F/RA	CESL823F-ESD/RA	0.9 - 7.3	0.11 - 0.83	2000	770 / 1.7
CESL824/RA	CESL824-ESD/RA	1.8 - 11.6	0.20 - 1.30	1000/700	
CESL824F/RA	CESL824F-ESD/RA	1.8 - 10.4	0.20 - 1.17	2000	





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32 VDC CONTROLLERS & ACCESSORIES

The BECT620C/820 Controllers are specifically for use with CESL810-827 Brushless Tools. One controller (ordered separately) is required per screwdriver. CE/RoHS/ETL Approved.



Controllers for 32VDC Brushless Drivers

Accessories

Model Number ⁽¹⁾	Outlets	Speeds	Tool Connector	Input	Output	Dimensions L x W x H (mm)	Weight kg / Ibs
BECT620C					32/24V DC, 60W	145 x 60 x 35	0.25 / 0.6
BECT820	1	Hi / Lo	6 pin	100-240V AC	32/24V DC, 120W	195 x 76 x 56	0.45 / 1

ESD

-ESD

SD

0

⁽¹⁾ Part number with North American cordset. For EU cord, add suffix 'E', UK cord add suffix 'UK'.

SD ESD





Non-ESD





Select driver model no. on the right, follow column down the chart; X signifies an appropriate accessory.	CESL810-ES CESL810S-E	CESL811-ES CESL812-ES	CESL811 CESL812	CESL823(F)- CESL824(F)-	CESL823P(F CESL824P(F	CESL823(F) CESL824(F)	CESL823P(F CESL824P(F	CESL827-ES	CESL827P-E	CESL827	CESL827P
Torque Lock Sleeve - covers tore	que adjust	ting nut to	deter tar	mpering (1 included	d), metal l	ock sleev	es also a	vailable		
DR80-20133C			X								
DR80-20133E (ESD safe)	X	Х									
DR80-10134C						Х	Х				
DR80-10134E (ESD safe)				Х	Х						
DR80-20142C										X	Х
DR80-20142E (ESD safe)								Х	X		
Pistol Grip Attachment - reconfig	gures an i	n-line scr	ewdriver	for horizo	ntal faster	ner install	ation				
DR80-PG623/4						X					
DR80-PG623/4ESD				Х							
DR80-PG623/4P							Х				
DR80-PG623/4PESD					Х						
DR80-PG628/9										Х	
DR80-PG628/9ESD								Х			
DR80-PG628/9P											Х
DR80-PG628/9PESD					X				X		
Tool Holster - fasten to the edge	of a workl	bench an	d park the	e screwdri	ver when	not in us	е				
DR80-10136 (w/ lock sleeve)				Х	Х	Х	X	Х	X	X	Х
DR80-20136 (no lock sleeve)				Х	Х	Х	X				
DR80-20141	X	X	X								
Cable Assemblies - for use with	all 32VDC	CESL8	Screwdriv	ers runnii	ng on std	hi/low sp	eed contr	ollers			
DR96-66002	2m (6.5	2m (6.5 ft), 6 pin, Standard Cable (included with each screwdriver)									
DR96-66003	3m (9.8 ft), 6 pin, Optional Long Cable										
DR96-66003/C	3m (9.8 ft), 6 pin, Coiled Cable with 0.4m whip ends										
DR96-66006	DR96-66006 6m (19.6 ft), 6 pin, Optional Long Cable										
Shielded Tool Cables - Use with	Count/Ve	rify Contr	ollers and	ECT8-S	SOA Adva	anced I/O	Module				
DR96-832X3MSH	3m (9.8 ft), 6 pin, Optional Long Cable (included with BECT832-SSO, ECT8-SSOA)										
DR96-832X5MSH	5m (16	ft), 6 pin	, Shielde	ed Cable							
DR96-832X10MSH	10m (3	2ft), 6 pi	in, Shield	ded Cabl	e						



COUNTING CONTROLLER: 40 V/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 / Ibs
BECT832-SSO				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] 1	Hi/Lo	CE/RoHS/ETL	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

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





BECT840-SS0 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)

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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.

LO Time



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.

HI Time



Cycle Start

DIP Switch

for optional

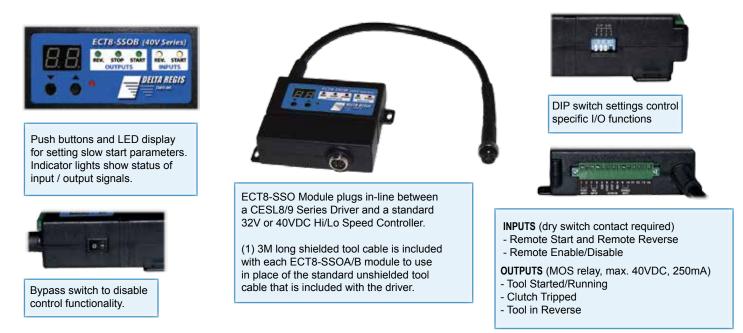
functionality



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



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
Slow Start Speed Adjustment	~ 30 - 100%	2. Remote Reverse	2. Clutch Activated	4.1 x 3.9 x 1.3 in
Max. Run Time Setting	0 - 9.9 sec	3. Remote Enable/Disable	3. Tool in Reverse	Weight: 180 g / 0.4 lbs

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,
ECT8-SSOD (40V Tools)	CESL828-829(P/F/PF), CESP835-865, CESL835M-875M(PM), CESL9 ; BECT640/940HL	Tool in Reverse

