ECT8-SSOC Slow Start / Output Signal Module Installation & Operation

Overview and Specifications

The ECT8-SSOC Module is an accessory product for use exclusively with Delta Regis CESL8 Series 32V DC Brushless Screwdrivers and BECT620(I)C Controllers. The module plugs in-line between the screwdriver and the controller to provide an adjustable slow start function (in forward only) as well as outputs for tool running, clutch tripped, and tool in reverse.

Specifications	
Use with Screwdriver Models	CESL810-812, CESL823-824(F/P/PF), CESL827(P)
Use with Controller Models	BECT620C, BECT620IC
Input (from tool controller)	32V DC, 0.2A
Tool Connections	6 pin cable whip (0.3m) in, 6 pin connector out
Slow Start Time Adj.	0.1 - 9.9 sec (0.1 sec increments)
Slow Start Speed Adj.	% of tool free speed: L1-L9 (30~90%), L0 (100%)
Output Signals	Run/Clutch/Reverse, MOS Relay (common GND connection)
Dimensions	58x95x35mm, 125g

Set-up and Operation

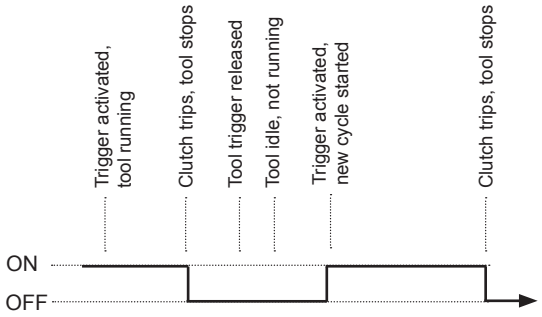
- With the screwdriver controller off, connect the pigtail cable of the ECT8-SSOC to the controller. Connect the screwdriver cable from the module to the screwdriver. Turn on the controller. The power LED will light.
- Adjust the slow start time and slow start speed using the UP and DOWN Arrow buttons per the following steps:
- Press and hold both buttons simultaneously for at least 2 sec. to enter the programming mode - 'Rc' will show in the display signifying Slow Start Time, followed by a time value.
- The slow start time setting will show as a value from 0.1 - 9.9 seconds. Use the UP/DOWN arrow keys to adjust the time value. When complete, press both keys again. 'SP' will show in the display signifying Slow Start Speed, followed by a value of L0 - L9.
- L0 = slow start off, L1-L9 = increasing increments of speed from 30-90% of full speed. Press both keys again to exit set-up mode.
- The ON/OFF switch allows the slow start functionality to be turned off in cases where slow start is not required. This provides full power to the tool from the start of the screwdriving cycle.
- NOTE - the slow start function is intended to assist in aligning fastener threads at the beginning of the screwing cycle. The slow start time must be set so that the tool is running at full speed before the fastener seats, otherwise the screwdriver's clutch may not function properly.

Output Signal Connector

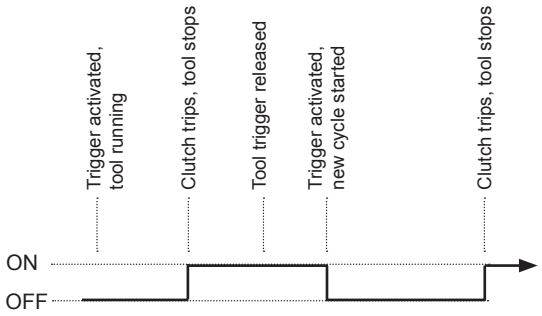
A four pin flat connector and mating cable with wire pigtails is provided for interfacing tool output signals with external equipment. Please refer to the following page for interface information and output signal contact ratings.

Output Signal Details

TOOL RUNNING
Provides a signal indicating when the driver is running

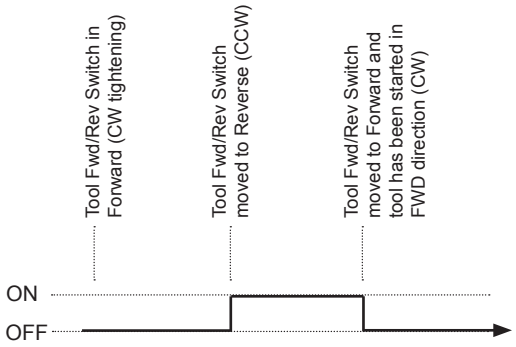


SHUT-OFF
Provides a signal indicating when the driver's clutch activates

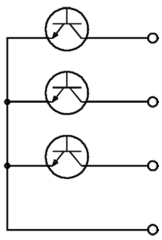


BY-PASS SWITCH
The module's by-pass switch is for the slow start function only (Slow Start ON/OFF).
The position of the slow start by-pass switch does not effect the output signals.

REVERSE
Outputs a signal when the driver is in reverse



MOS Relay Outputs (max. contact rating 60V, 400mA)
Connect each output (1-3) as required. GND terminal 4 acts as the common connection for all 3 relays. The polarity of output connections 1-3 must be the same.
We recommend using GND as a V- (0V) connection and using output connections 1-3 for the V+ side of the external circuit (although this could be reversed if necessary).
Please take appropriate measures to prevent voltage or current spikes in the external circuitry that could damage the relay contacts.



1. TOOL RUNNING (Orange) *ON=Running, OFF=Stopped*

2. SHUT-OFF (Red) *ON=Clutch Tripped*

3. TOOL IN REVERSE (Brown) *OFF=Forward, ON=Reverse*

4. GND (Black)

ECT8-SSOD Slow Start / Output Signal Module Installation & Operation

Overview and Specifications

The ECT8-SSOD Module is an accessory product for use exclusively with Delta Regis CESL8 Series 40V DC Brushless Screwdrivers and BECT640HL Controllers. The module plugs in-line between the screwdriver and the controller to provide an adjustable slow start function (in forward only) as well as outputs for tool running, clutch tripped, and tool in reverse.

Specifications	
Use with Screwdriver Models	CESL828-829(F/P/PF), CESL835M-865M(PM), CESP835-865
Use with Controller Models	BECT640, BECT640HL
Input (from tool controller)	40V DC
Tool Connections	6 pin cable whip (0.3m) in, 6 pin connector out
Slow Start Time Adj.	0.1 - 9.9 sec (0.1 sec increments)
Slow Start Speed Adj.	% of tool free speed: L1-L9 (30~90%), L0 (100%)
Output Signals	Run/Clutch/Reverse, MOS Relay (common GND connection)
Dimensions	58x95x35mm, 125g

Set-up and Operation

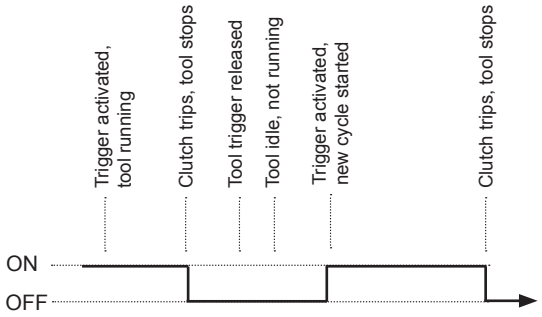
- With the screwdriver controller off, connect the pigtail cable of the ECT8-SSOD to the controller. Connect the screwdriver cable from the module to the screwdriver. Turn on the controller. The power LED will light.
- Adjust the slow start time and slow start speed using the UP and DOWN Arrow buttons per the following steps:
- Press and hold both buttons simultaneously for at least 2 sec. to enter the programming mode - 'Rc' will show in the display signifying Slow Start Time, followed by a time value.
- The slow start time setting will show as a value from 0.1 - 9.9 seconds. Use the UP/DOWN arrow keys to adjust the time value. When complete, press both keys again. 'SP' will show in the display signifying Slow Start Speed, followed by a value of L0 - L9.
- L0 = slow start off, L1-L9 = increasing increments of speed from 30-90% of full speed. Press both keys again to exit set-up mode.
- The ON/OFF switch allows the slow start functionality to be turned off in cases where slow start is not required. This provides full power to the tool from the start of the screwdriving cycle.
- NOTE - the slow start function is intended to assist in aligning fastener threads at the beginning of the screwing cycle. The slow start time must be set so that the tool is running at full speed before the fastener seats, otherwise the screwdriver's clutch may not function properly.

Output Signal Connector

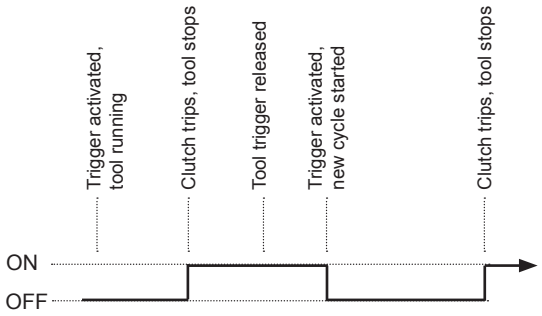
A four pin flat connector and mating cable with wire pigtails is provided for interfacing tool output signals with external equipment. Please refer to the following page for interface information and output signal contact ratings.

Output Signal Details

TOOL RUNNING
Provides a signal indicating when the driver is running



SHUT-OFF
Provides a signal indicating when the driver's clutch activates



BY-PASS SWITCH
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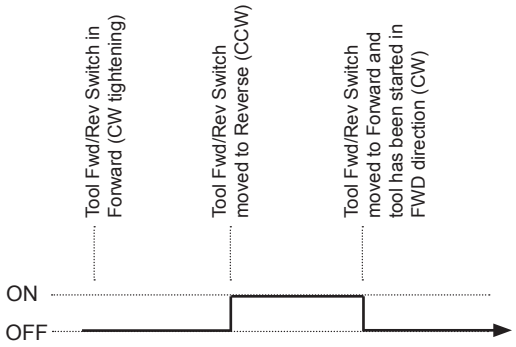
REVERSE
Outputs a signal when the driver is in reverse



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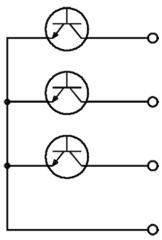

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