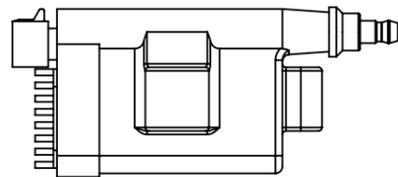
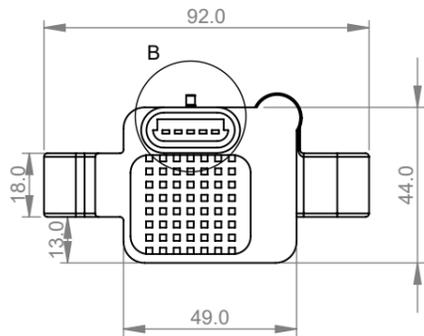
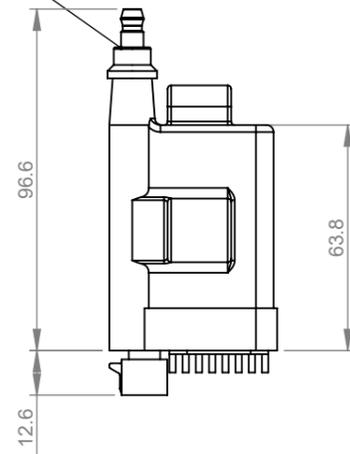
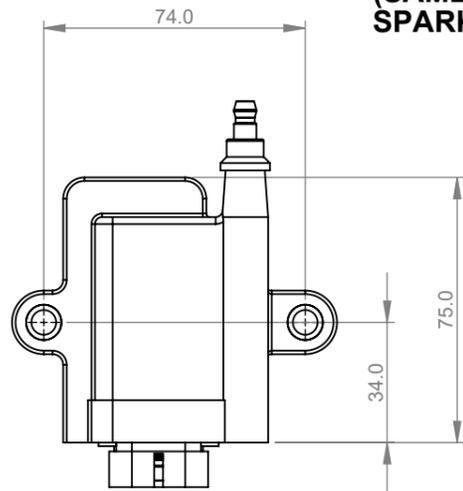


DETAIL B
SCALE 2:1

HEI POST
(SAME AS CONVENTIONAL
SPARK PLUG)



TERMINAL	DESCRIPTION	INSTALLATION NOTES
A	ECU TRIGGER	0-5V SQUARE WAVE SIGNAL. DWELL BEGINS ON RISING EDGE, SPARK OCCURS ON FALLING EDGE.
B	ECU TRIGGER REF / GND	TO BE TERMINATED TO ECU SENSOR / SIGNAL GND
C	SECONDARY WINDING GND	LOW CURRENT GND TO BE TERMINATED TO CYLINDER HEAD
D	HIGH CURRENT GND	WIRE TO LOW RESISTANCE PATH TO BATTERY NEGATIVE. RECOMMEND 0.85mm ² WIRE PER COIL FOR APPLICATIONS UP TO 10A. USE 2.0mm ² WIRE FOR APPLICATIONS ABOVE 10A.
E	HIGH CURRENT POWER	WIRE TO BATTERY POSITIVE THROUGH FUSE AND RELAY. RECOMMEND 0.85mm ² WIRE PER COIL FOR APPLICATIONS UP TO 10A. USE 2.0mm ² WIRE FOR APPLICATIONS ABOVE 10A.

		Tested Dwell Time (ms) for Required Primary Coil Peak Current (A)										Manufacturer 8A
		NZEFI										
Battery Voltage	6V	8.3	12.0	16.1	19.7							
	8V	5.3	7.2	9.0	10.4	12.5	15.0					
	10V	4.1	5.2	6.4	7.2	8.7	9.7	10.9	11.7			
	12V	3.1	4.4	5.2	5.9	6.9	7.4	7.9	8.6	9.2	9.9	
	14V	2.6	3.4	4.2	4.8	5.4	5.9	6.3	6.5	6.9	7.3	5.0
	16V	2.4	2.9	3.6	3.9	4.6	5.0	5.3	5.5	5.7	5.9	
	18V	2.1	2.7	3.1	3.5	3.9	4.4	4.5	4.8	5.0	5.1	
	20V	1.8	2.2	2.6	2.9	3.4	3.7	3.9	4.2	4.4	4.5	

Not recommended to operate above 8A due to magnetic saturation

		Tested Coil Specifications @ Primary Coil Peak Current (A)										Manufacturer 8A	
		NZEFI											
Approx. Spark Energy (mJ)		58	74	87	98	119	129					150	103 mJ ± 7%
Secondary Coil Peak Current (mA)		70	78	85	90	109	131	142				180	102 mA ± 7%
Spark Duration (ms)		1.5	1.8	1.9	2.0	2.1	2.2	2.3				2.4	2.9 ms ± 10%
Output Voltage (NO LOAD)													40,000 V MIN
Output Voltage (50 pF LOAD)													40,000 V ± 10%

Notes

- Magnetic saturation of the coil core occurs at primary coil peak current of ~8A.
- Extended operation above 8A will result in overheating causing coil damage.
- Coils should be mounted away from heat sources with good ventilation to prevent damage.
- Short interval operation above 8A should be restricted to less than 10s to reduce risk of failure.
- Recommended to be used on coil per cylinder applications.
- For use with distributor systems primary coil peak current should be less than 6A to prevent overheating due to high duty cycle operation

TITLE: **HIGH ENERGY INDUCTIVE IGNITION COIL
NZEFI HEIIC-ID
(WITH INTERNAL DRIVER)**

TOLERANCES
(UNLESS OTHERWISE STATED)
X ± 0.75 ANGLES ± 0.5°
XX ± 0.5
XXX ± 0.25



REV	MODIFICATIONS	DATE	BY	CHK
A	FIRST DRAWN	27-05-13	LS	WL
0B	WIRE SIZE REVISED	27-06-13	LS	WL
0C	TEST DATA ADDED	09-09-15	LS	WL

DRAWN: LS
DATE: 27-05-13
SIZE: A3

DWG No. NZEFI HEIIC-ID REV 0C

MATERIAL:
FINISH:
SURFACE PROTECTION:

SCALE: 1:1
DIMENSIONS IN mm
DO NOT SCALE

