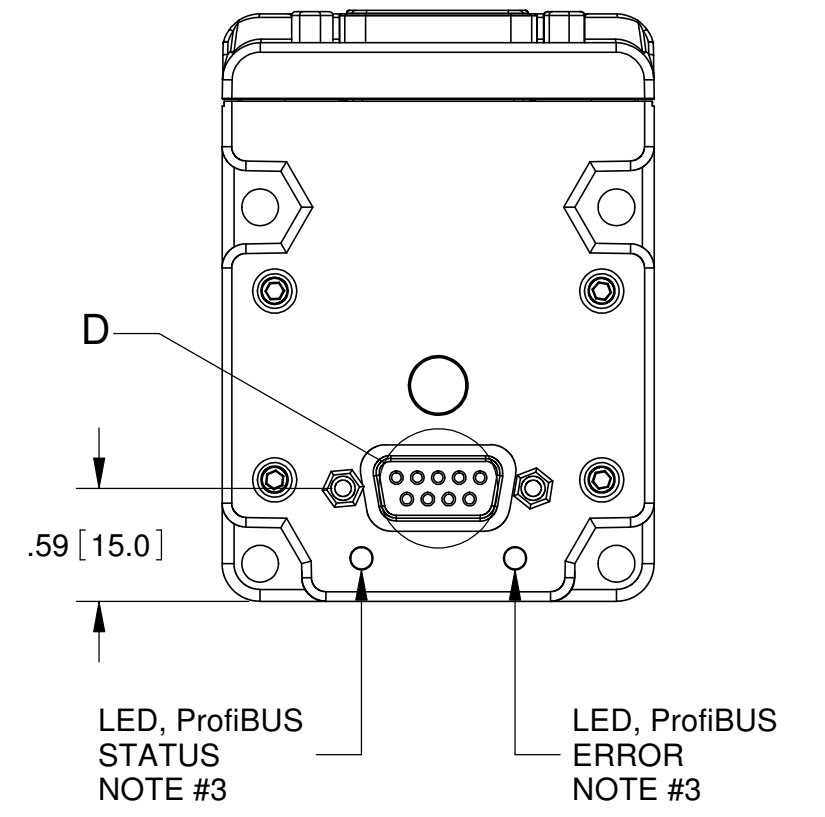
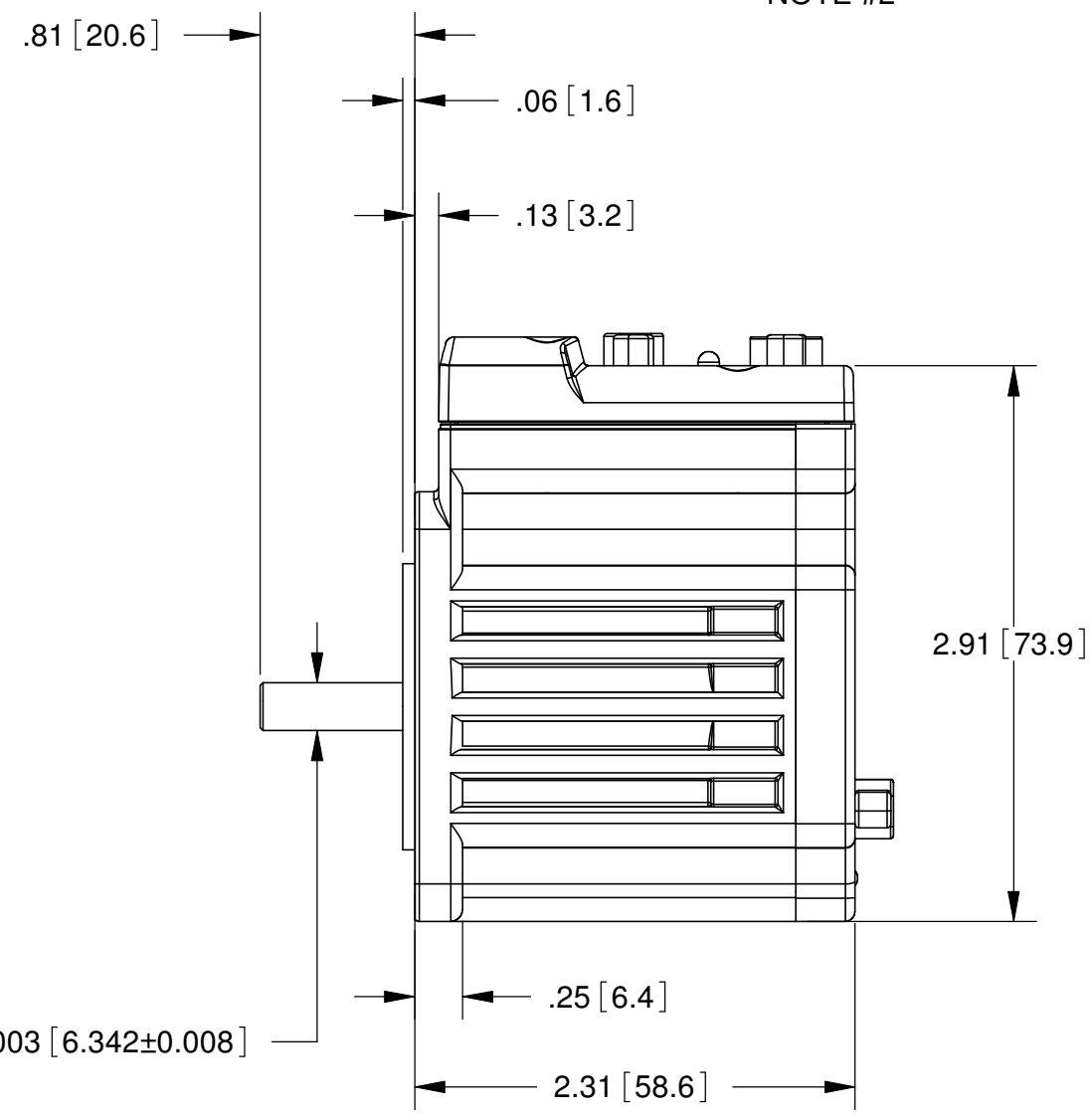
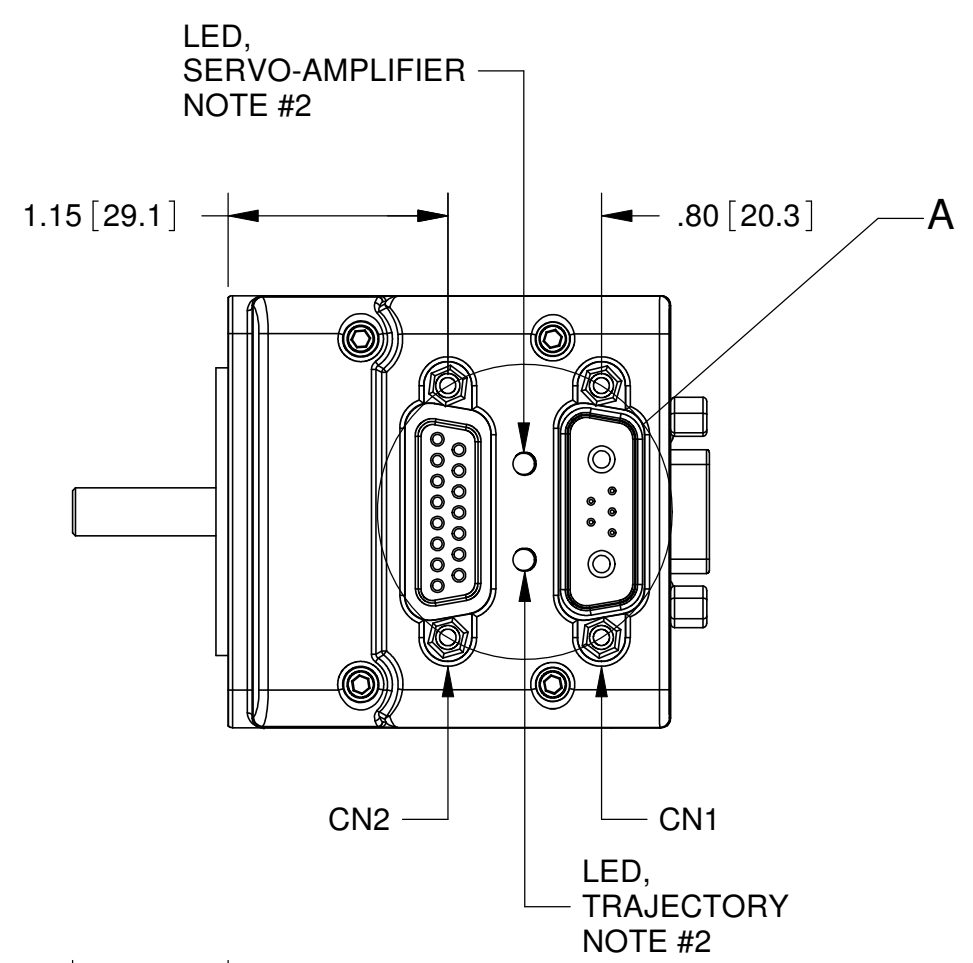
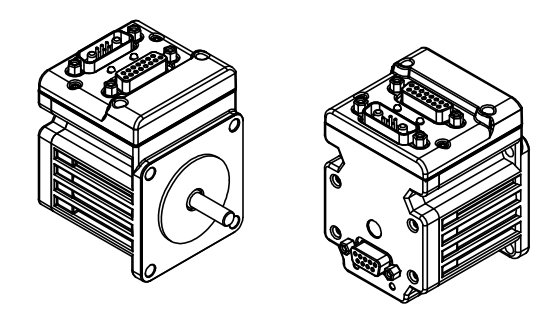
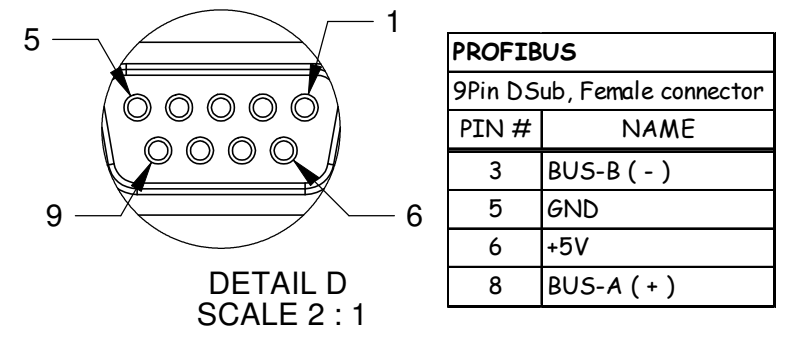
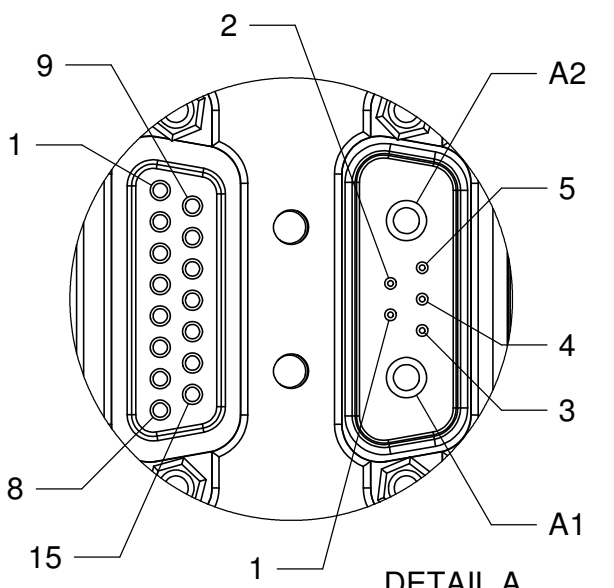
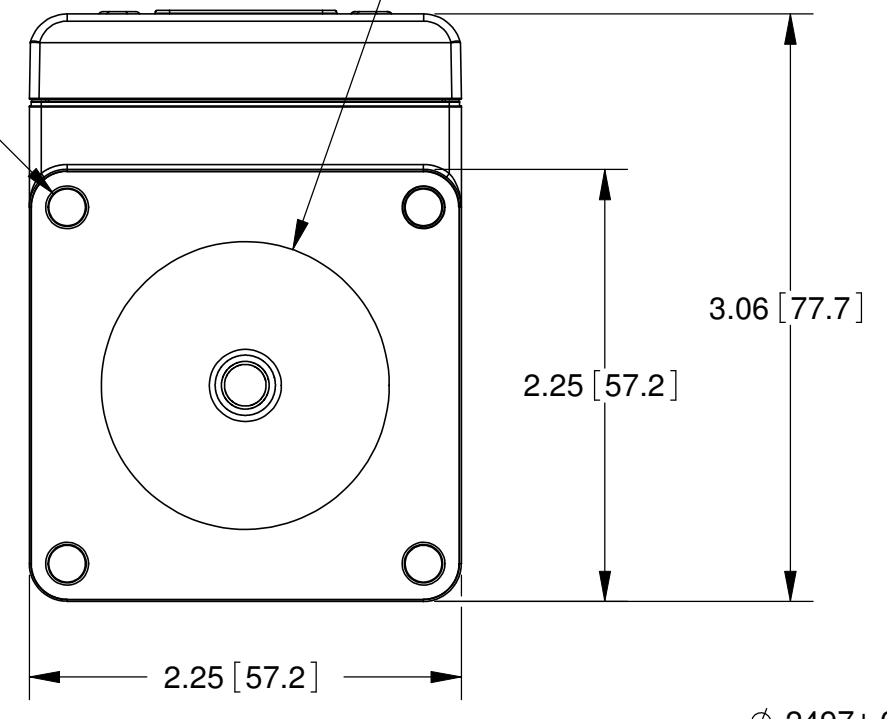


REV.	DESCRIPTION	ZONE	ECO	DATE	APPROVED
A	PRELIMINARY			10/09/2010	M. TRAN

- NOTES:
- DRAWING APPLIES TO THE FOLLOWING SMARTMOTOR WITH PART NUMBERS:
 SM23165D-PB SM23165D-DE-PB
 SM23165DT-PB SM23165DT-DE-PB
 - LED, SERVO-AMPLIFIER:
 - CLEAR = CONTROLLER POWER NOT AVAILABLE
 - RED = FAULT
 - FLASH GREEN = DRIVE (AMPLIFIER) IS OFF
 - GREEN = DRIVE (AMPLIFIER) IS ON
 - LED, TRAJECTORY
 - CLEAR = NOT IN CONTROLLED TRAJECTORY (DEFAULT STATE)
 - GREEN = IN CONTROLLED TRAJECTORY (CLOSE LOOP MOTION)
 - PROFIBUS LED STATE, AFTER MOTOR POWER-UP PROFIBUS GATEWAY INITIALIZATION:
 - LED, PROFIBUS STATUS
 - OFF = NO CONNECTION TO PROFIBUS HOST
 - GREEN = CONNECTION TO PROFIBUS HOST ESTABLISHED.
 - LED, PROFIBUS ERROR
 - OFF = NO BUS TRANSMISSION ERROR
 - RED = BUS TRANSMISSION ERROR HAS OCCURRED
 - FOR -DE OPTION, DRIVE POWER AND CONTROLLER POWER ARE ON SEPARATE PINS. MUST PROVIDE POWER TO CONTROLLER AND DRIVE POWER TO OPERATE. SEE TABLE CN2 BELOW FOR PIN ASSIGNMENT.
 - DIMENSIONS IN [] ARE mm.
 - RECOMMENDED BOLTING SCREW SIZE TO BE 10-32 OR M5, SOCKET CAP.



$\phi .200 [5.07]$ THRU
 ON $\phi 2.625 \pm .005 [66.68 \pm 0.13]$
 B.C. EQUALLY SPACED



CN2 : 15PIN D-SUB FEMALE CONNECTOR					
PIN #	NAME	FUNCTIONS			
		Default Function	Secondary Function	Digital I/O	Analog Input (10bit Res)
1	I/O A	External Encoder A Input	Step Input	5V TTL	0 to 5V
2	I/O B	External Encoder B Input	Direction Input	5V TTL	0 to 5V
3	I/O C	Positive Limit Input		5V TTL	0 to 5V
4	I/O D	Negative Limit Input		5V TTL	0 to 5V
5	I/O E	NA	RS485 A (+)	5V TTL	0 to 5V
6	I/O F	NA	RS485 B (-)	5V TTL	0 to 5V
7	I/O G	G-Synchronization	RS485-ISO Adapter Data Flow Control	5V TTL	0 to 5V
8	ENC A OUT	Encoder A Output			
9	ENC B OUT	Encoder B Output			
10	RS232 Tx	RS232 Transmit			
11	RS232 Rx	RS232 Receive			
12	+5Vdc OUT	+5Vdc Supply Out			
13	GND	Signal GND			
14	POWER GND	POWER GND	For -DE Option, Pin 15 is Contorl power (20V to 48V) and Pin 14 is PWR GND. *PIN 15 is not connected to A1.		
15	POWER	POWER			

CN1 : 7PIN COMBO D-Sub Male Connector				
PIN #	NAME	FUNCTIONS	Ties to CN2, PIN #	
1	I/O G	G-Synchronization	7	
2	+5V dc OUT	+5Vdc Output	12	
3	RS232 Tx	RS232 Transmit	10	
4	RS232 Rx	RS232 Received	11	
5	GND	Signal GND	13	
A1	DRIVE PWR	Dirve Power (20 - 48Vdc)	15^	
A2	POWER GND	POWER GND	14	

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MATERIAL ALUMINUM HOUSING	FINISH BLACK ANODIZED HOUSING	DRAWN M. TRAN	DATE 10/09/2010
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE INCHES AND TOLERANCES ARE: DECIMALS: .XXX ± .005 .XX ± .03		INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5M - 1994. ALL DIMENSIONS, TOLERANCES AND ROUGHNESS APPLY AFTER FINISHING, WHEN APPLICABLE. NO BURRS ALLOWED, BREAK SHARP EDGES .01 MAX.	

Animatics Corporation

TITLE: **SM23165D AND SM23165DT SERIES W/PROFIBUS OPTION**

SIZE C	DWG NO SM23165x-PB
DO NOT SCALE DRAWING	SCALE 1:1 SHEET 1 OF 1