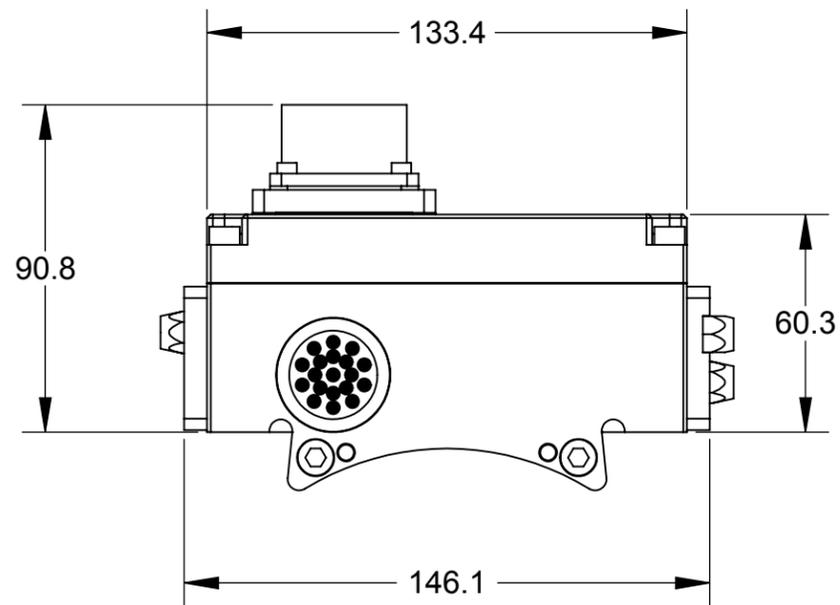
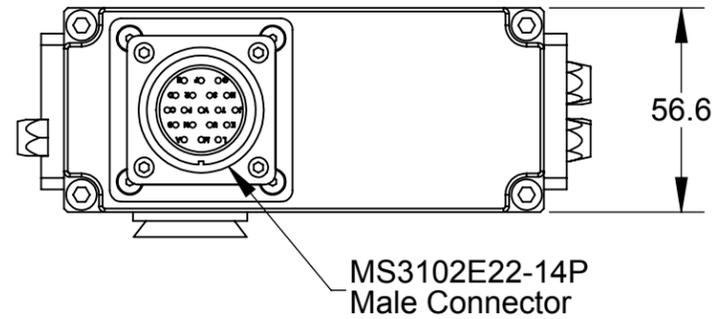
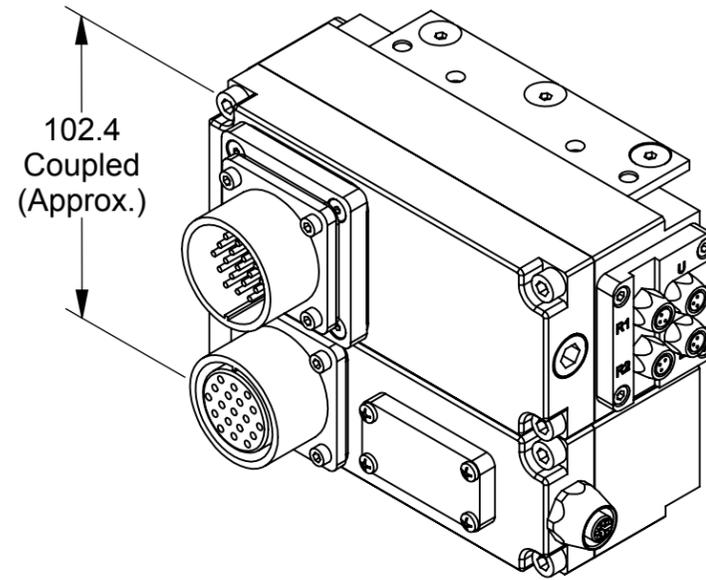


Rev.	Description	Initiator	Date
04	ECO 18684: Sheet 3: Added Note 4: Tool-ID Switch is rated for 0.1A / 30VDC.	TBC	3/10/2020

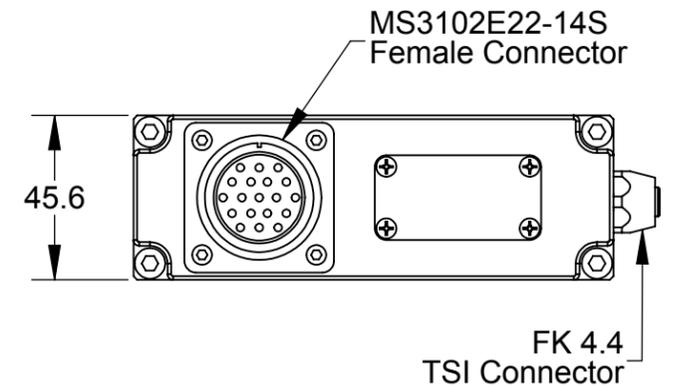
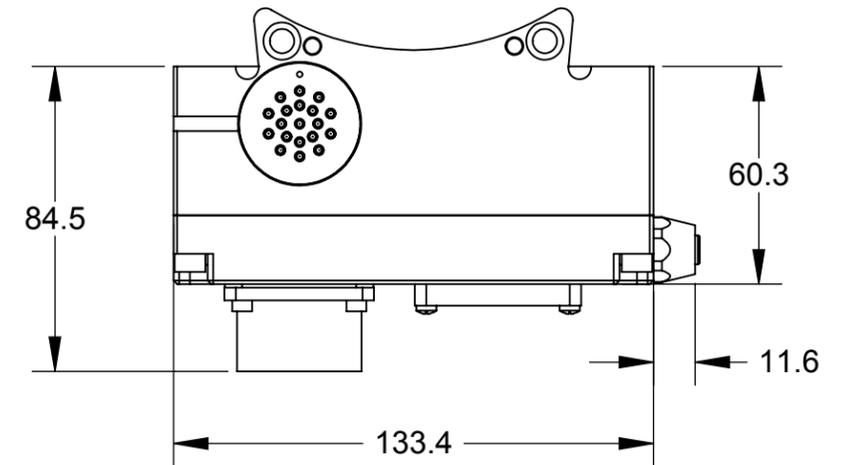
VB5 Master Module
(9121-VB5-M)



VB5M VB2T Dimensions



VB2 Tool Module
(9121-VB2-T)



Notes:

1. The VB5-M/VB2-T module combination supports the use of tool changer NPN sensors (only).
2. Refer to Sheet 3 (schematic) for additional details related to the tool changer I/O supported for this module configuration.

Sheet Configurations

Sheet 1: VB5M VB2T Dimensions
Sheet 2: VB5M VB2T Serviceable Parts
Sheet 3: VB5M VB2T Schematic

NOTES: UNLESS OTHERWISE SPECIFIED.

DO NOT SCALE DRAWING.
ALL DIMENSIONS ARE IN MILLIMETERS.



3rd ANGLE PROJECTION



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DRAWN BY: R. Heavner, 12/15/2007

CHECKED BY: D. Mushow, 12/17/2007

PROJECT # 071205-1 SHEET 1 OF 3

TITLE
VB5M VB2T Module Drawing

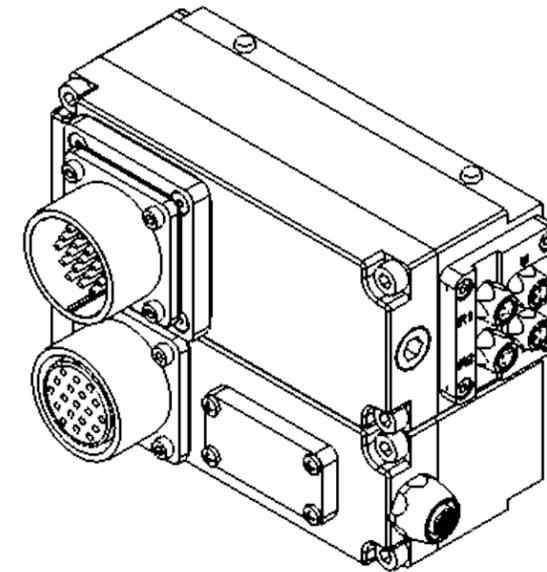
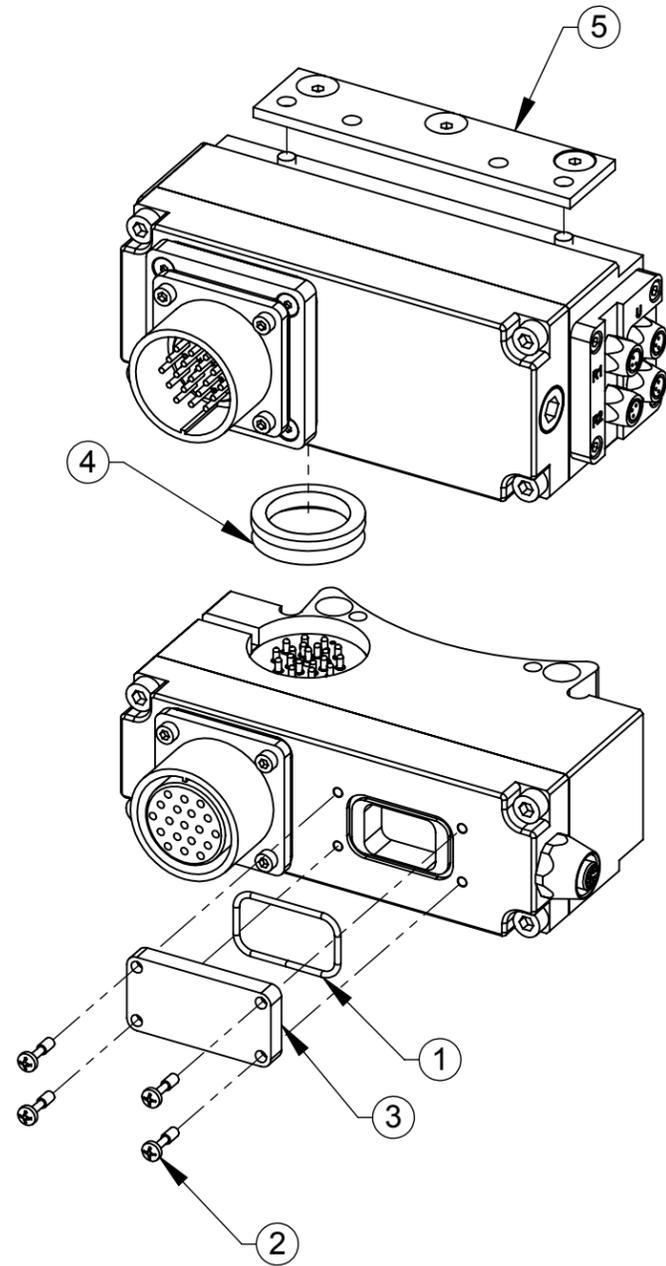
SCALE
1:2

SIZE
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DRAWING NUMBER
9630-20-VB5M VB2T

REVISION
04

VB5M VB2T Serviceable Parts



Serviceable Parts

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
1	1	3410-0001092-01	O-ring AS568-023
2	4	3500-9957012-21	CAPTIVE SCREW M3 X 12 SLOTTED HEAD SS
3	1	3700-20-2696	Thick Window for DP/DE45 Master
4	1	4010-0000030-01	V-Ring Seal
5	1	9005-20-1198	Master Cleat Sub-Assembly

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TITLE

VB5M VB2T Module Drawing

PROJECT # 071205-1 SHEET 2 OF 3

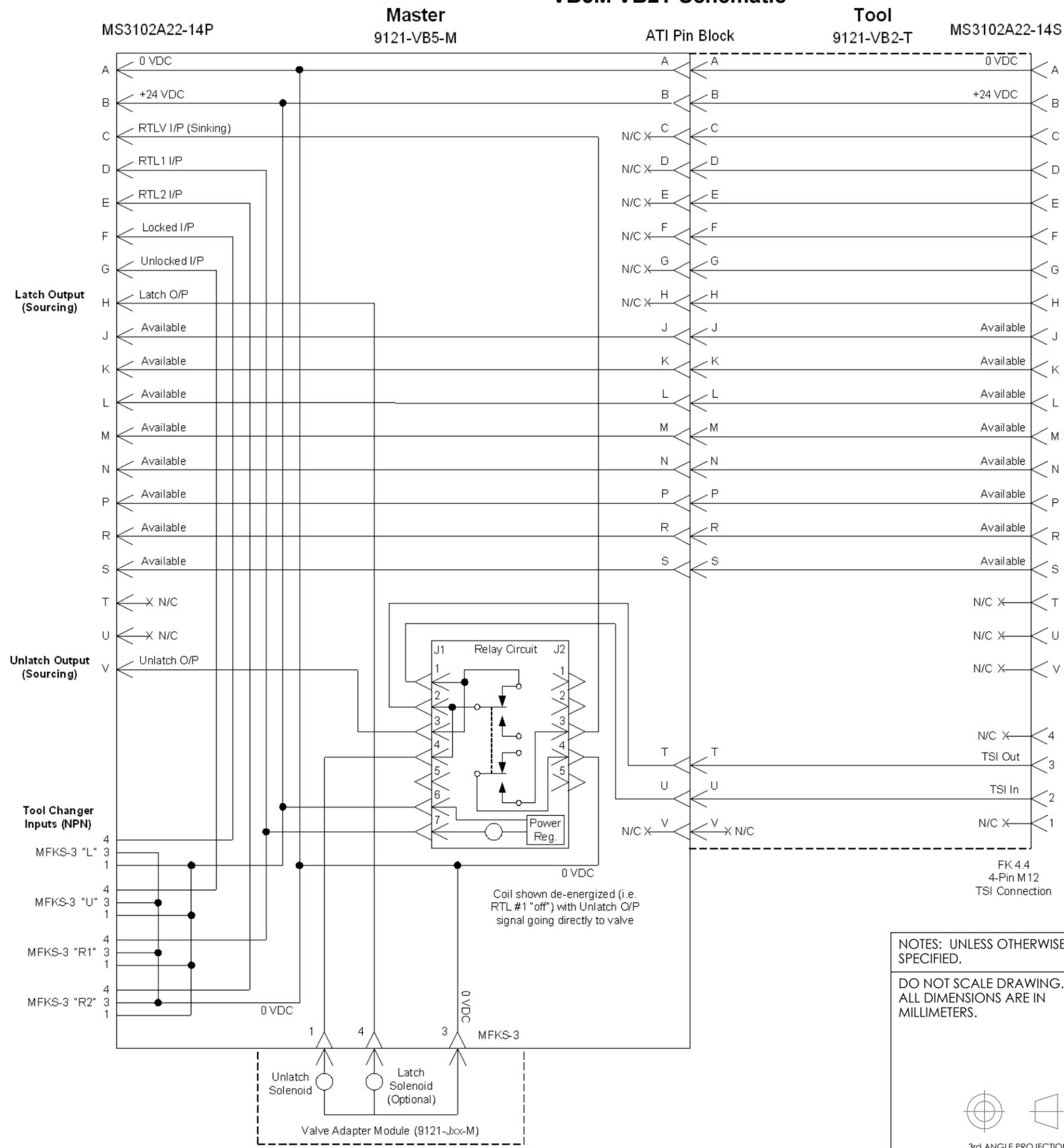
SCALE
1:2

SIZE
B

DRAWING NUMBER
9630-20-VB5M VB2T

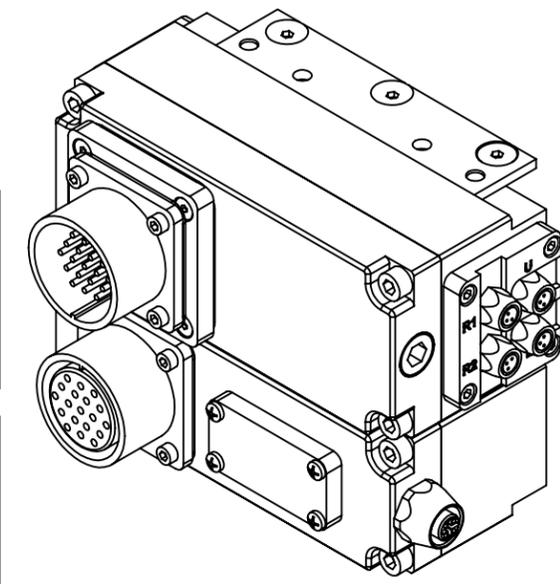
REVISION
04

VB5M VB2T Schematic



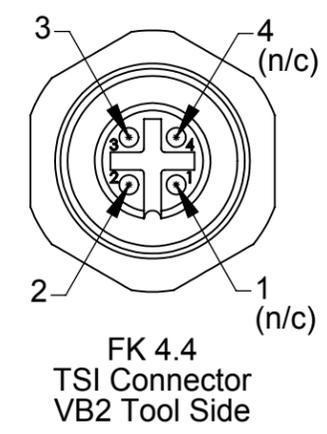
Tool Changer Outputs (Sourcing-type)		
Pin:	Signal:	Description:
A	0 VDC	Voltage Reference
B	24 VDC	Voltage Supply
H	24 VDC	Lock Solenoid Supply (Double Solenoid)
V	24 VDC	Unlock Solenoid Supply

Tool Changer Inputs (Sinking-type)		
Pin:	Signal:	Description:
C	RTL V	RTL Verify Input
D	RTL #1	Ready-To-Lock Input #1
E	RTL #2	Ready-To-Lock Input #2
F	Locked	Tool Changer Locked Input
G	Unlocked	Tool Changer Unlocked Input



Tool Stand Interlock (TSI) Operation:

1. A hard-wired break in the Valve Unlock Output is provided on the tool module via a 4-pin, M12 connector. It is suggested that the customer integrate a single throw, double pole (NO, spring return) limit switch to work with this feature. The limit switch should be mounted to the end effector in such a way that the switch is "made" only when the tool is in the stand or storage location.
2. The RTL #1 sensor is very important to the operation of the TSI feature and should be monitored for failure. The RTL V Input is provided for fault monitoring of this circuit. Please consult the product manual for operation and fault monitoring suggestions.
3. Limit switches, trip dogs and cabling are also available from ATI.
4. Tool-ID Switch is rated for 0.1A / 30VDC.



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DRAWN BY: R. Heavner, 12/15/2007		TITLE	
CHECKED BY: D. Mushow, 12/17/2007		VB5M VB2T Module Drawing	
PROJECT #	071205-1	SHEET	3 OF 3
SCALE	1:2	SIZE	B
DRAWING NUMBER		REVISION	
9630-20-VB5M VB2T		04	

