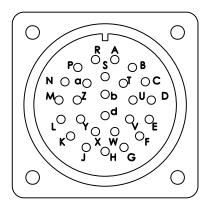
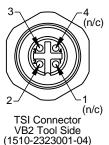
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# **VB2 Master with VB2 Tool**

| Rev. | Description | Initiator | Date |
|------|-------------|-----------|------|
| -    | See Sheet1  | -         | =    |

#### VB2-M Master Side (MS3102E28-12P)





# Tool Stand Interlock (TSI) Operation:

- 1. A hard-wired break in the Valve Unlock Output is provided on the tool module via the 4-pin Eurofast 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 sensor is very important to this TSI feature and therefore should be monitored for failure. RTLV Input is available for fault monitoring of this circuit. Please consult the product manual for operation and fault monitoring.
- 3. Limit switches, trip dogs and cabling are also available from ATI.

### VB2 Pin Out

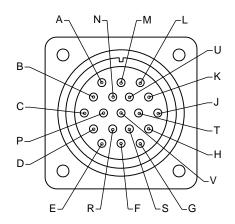
VB2 Master VB2 Tool MS3102E28-12P MS3102E22-14S Female Connector Male Connector

| 0 VDC Reference | A | >> | Α | 0 VDC Reference       |
|-----------------|---|----|---|-----------------------|
| +24 VDC         | B | >> | В | +24 VDC               |
| available       | C | >> | С | available             |
| available       | D | >> | D | available             |
| available       | E | >> | E | available             |
| available       | F | >> | F | avaitable             |
| äväilable       | G | >> | G | availablé             |
| available       | H | >> | Н | available             |
| available       | j | >> | j | available             |
| available       | K | >> | K | available             |
| available       | Ĺ | >> | Ĺ | available             |
| available       | M | >> | M | avaitable             |
| available       | N | >> | N | available             |
| available       | P | >> | Ρ | available             |
| available       | R | >> | R | avaifable             |
| available       | S | >> | S | avaifable             |
| not available   | T |    | T | not available         |
| not available   | ប |    | U | not available         |
| not available   | V |    | V | not available         |
| Lock O/P        | W |    |   |                       |
| Unlock O/P      | × |    |   | TSI Connector         |
| RTLV I/P        | Υ |    |   | 4-Pin Eurofast Female |
| RTL #1 I/P      | Z |    | 4 | N/C                   |
| RTL #2 I/P      | а |    | 3 | TSI Out               |
| Lock I/P        | Ь |    | 2 | TSI In                |
| Unlock I/P      | d |    | 1 | N/C                   |
|                 |   |    |   |                       |
|                 |   |    |   |                       |

## Notes:

- Pin "A" on the MS connector is First-to-Mate Last-to-Break at the tool changer interface. This pin is recommended for use as 0 VDC / ground reference.
- 2. Large views of connectors are 1.5:1 scale.

# VB2-T Tool Side (MS3102E22-14S)



|      |         | Controller Outputs                     |  |  |
|------|---------|----------------------------------------|--|--|
| Pin: | Signal: | Description:                           |  |  |
| A    | 0 VDC   | Voltage Reference                      |  |  |
| В    | 24 VDC  | Voltage Supply                         |  |  |
| Χ    | 24 VDC  | Unlock Solenoid Supply                 |  |  |
| W    | 24 VDC  | Lock Solenoid Supply (Double Solenoid) |  |  |
|      | 1       |                                        |  |  |
|      |         | Controller Inputs                      |  |  |
|      |         |                                        |  |  |
| Pin: | Signal: | Description:                           |  |  |
| Υ    | RTLV    | RTL Verify Input                       |  |  |
| Z    | RTL #1  | Ready-To-Lock Input #1                 |  |  |
| а    | RTL #2  | Ready-To-Lock Input #2                 |  |  |
| b    | Lock    | Tool Changer Lock Input                |  |  |
| d    | Unlock  | ock Tool Changer Unlock Input          |  |  |
|      |         |                                        |  |  |



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|               |             | P.Sparrow, 4/22/05 | VB2 Family Module Drawing |                  |               |                       |
|---------------|-------------|--------------------|---------------------------|------------------|---------------|-----------------------|
|               | CHECKED BY: | B.Digeso, 5/10/05  |                           |                  |               |                       |
|               | WEIGHT LBS: | 1.64               | SCALE<br>1:2              | SIZE<br><b>B</b> | DRAWING NUMBI | 9630-20-VB2 Family-05 |
| ASSEMBLY REF: |             |                    | PRODUCT RELE              | ASE #            | DATE:         | SHEET 3 OF 5          |

