

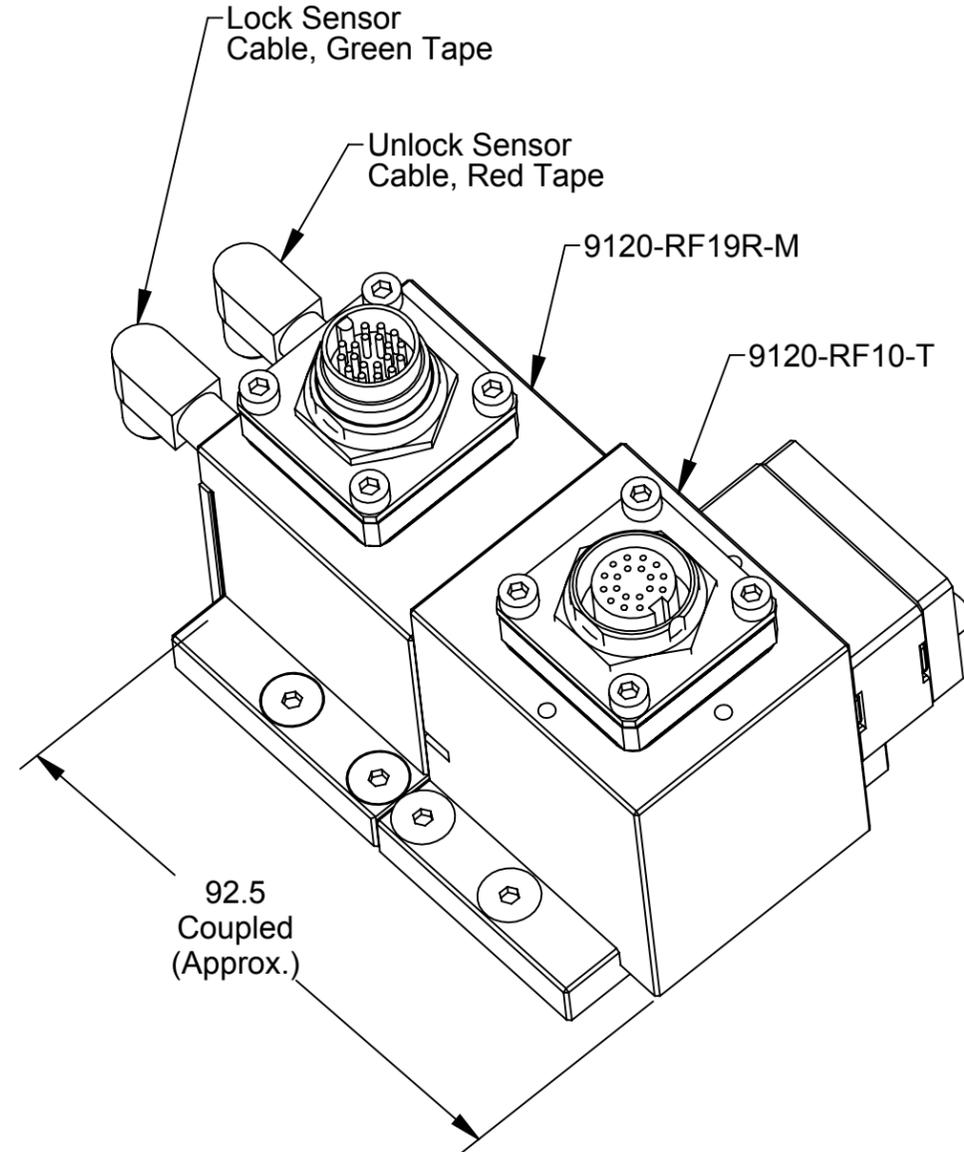
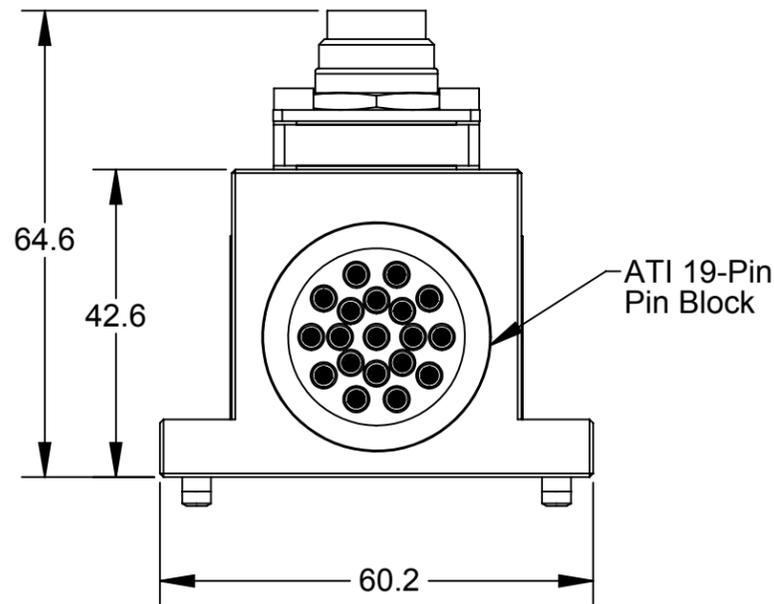
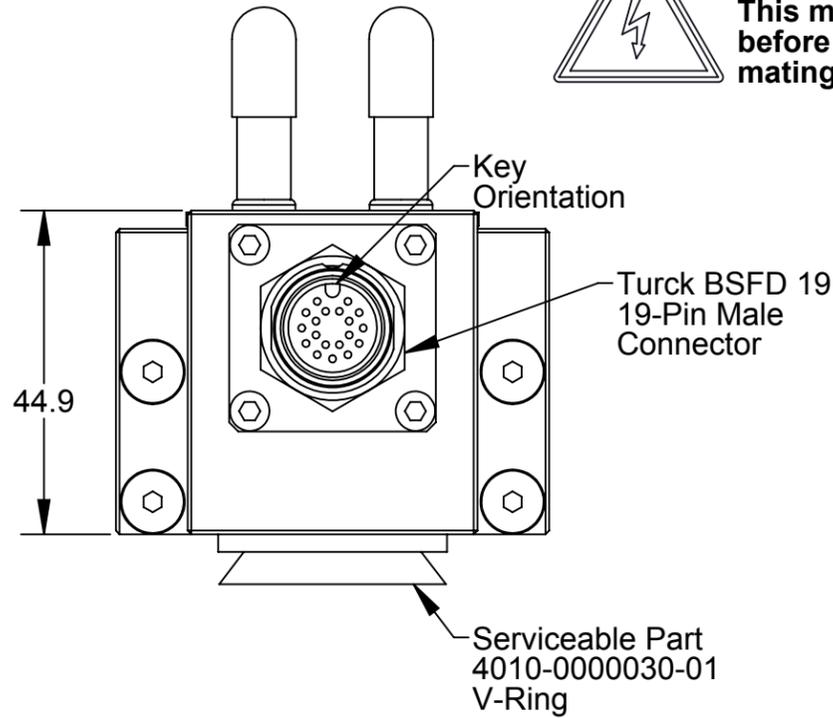
| Rev. | Description  | Initiator | Date     |
|------|--|-----------|----------|
| 02   | ECO 18032: Added "Tool-ID Switch is rated for 0.1A / 30VDC" note. Added "Shock Hazard" note. RF19R Master Module view: 64.8 dimension updated to 64.6. RF10 Tool Module view: 70.1 dimension updated to 69.8. Updated Notes numbering after changes. | TBC       | 7/3/2019 |

**9120-RF19R-M  
Master Module**

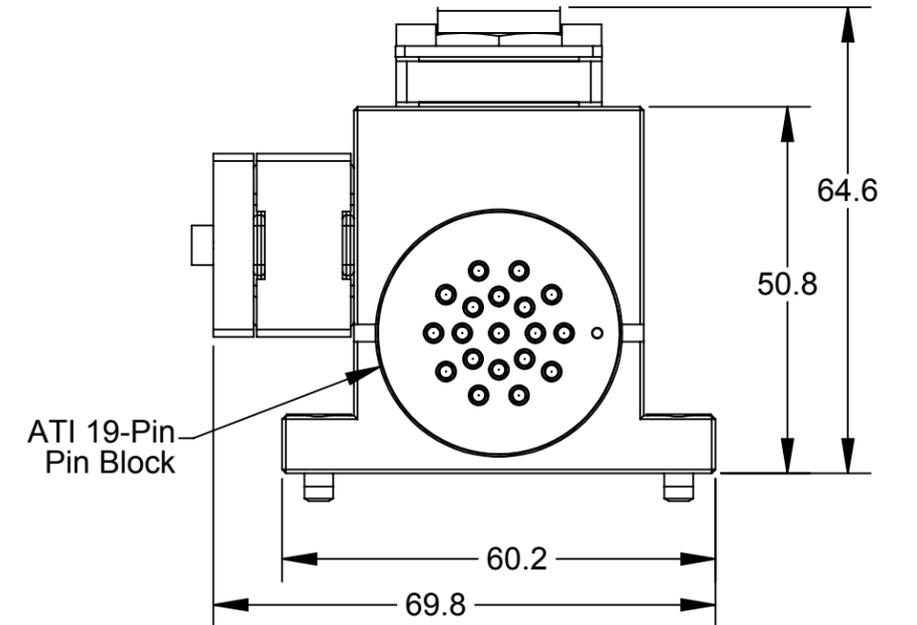
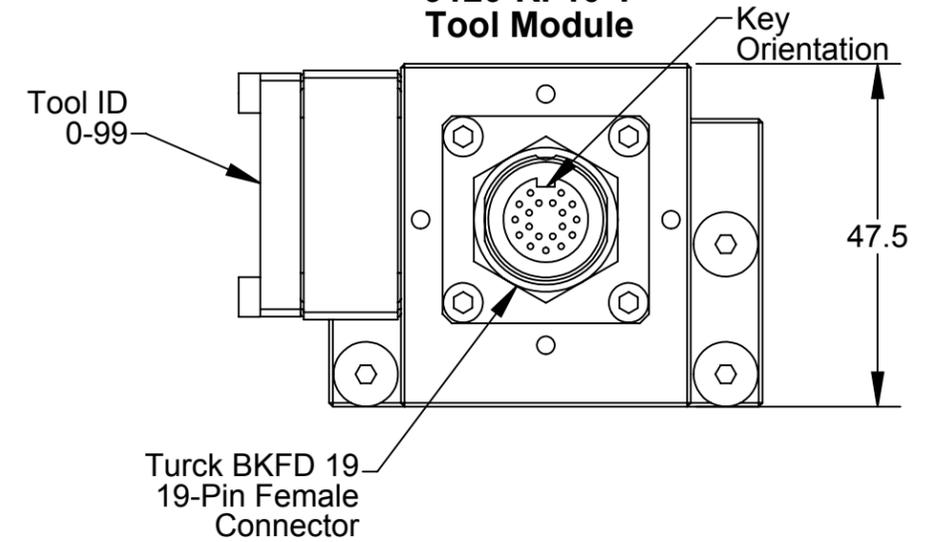


**" DANGER!" - Electrical Shock Hazard**

**This module has a Voltage of 50V or greater, NO contact should be attempted before removing power. This especially includes separation or insertion of the mating connectors or any contact with the tool changer or its components."**



**9120-RF10-T  
Tool Module**



- Notes:**
1. Module Electrical rating: 3 AMPS / 120 VAC
  2. Tool-ID Switch is rated for 0.1A / 30VDC
  3. Customer approval of electrical schematic is required.
  4. Customer is to approve connector selection and orientation.
  5. See sheet 3 for module wiring schematic.
  6. See Sheet 2 for Customer Interface information.

NOTES: UNLESS OTHERWISE SPECIFIED.

DO NOT SCALE DRAWING. ALL DIMENSIONS ARE IN MILLIMETERS.



3rd ANGLE PROJECTION

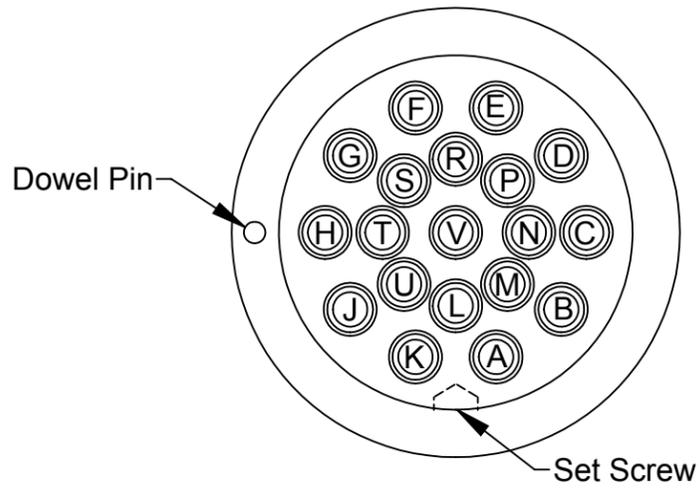


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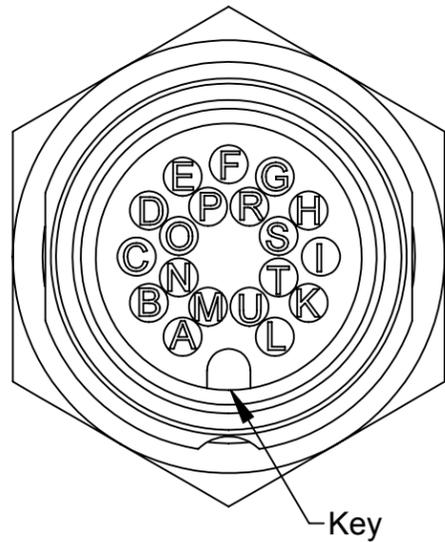
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| DRAWN BY: P.Luczka, 8/21/13                          |              | TITLE  |      |
| CHECKED BY: A.Takla, 8/22/13<br>B.Henderson, 8/23/13 |              | RF19R / RF10 Electrical Modules with Sensor cables |      |
| PROJECT # -  | SHEET 1 OF 3 | SCALE  | SIZE |
|  |              | 1:1  | B    |
| DRAWING NUMBER                                       |              | REVISION   |      |
| 9630-20-RF19RM RF10T                                 |              | 02   |      |

**Master Side**

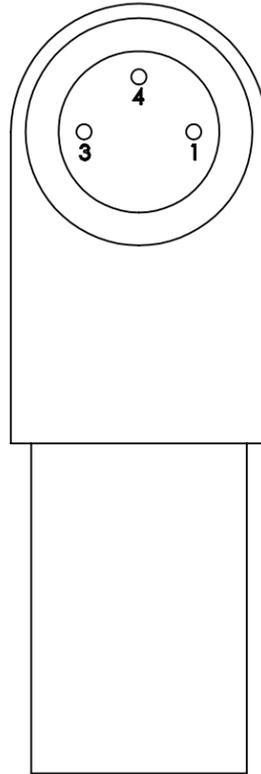


ATI 19-Pin  
Pin Block  
Face View  
Scale 2:1



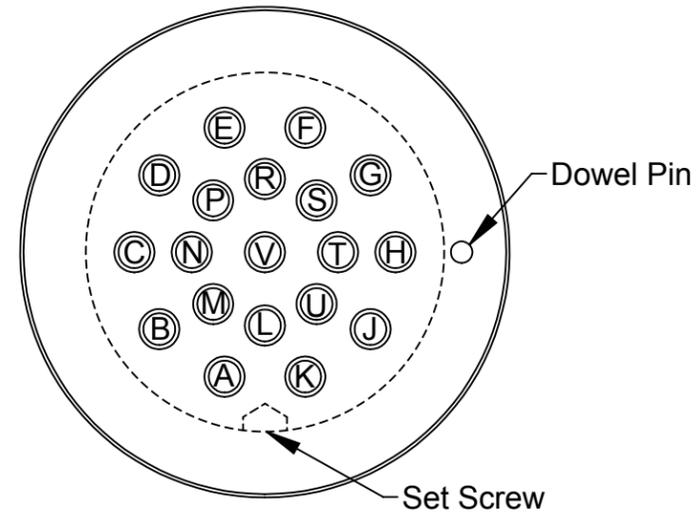
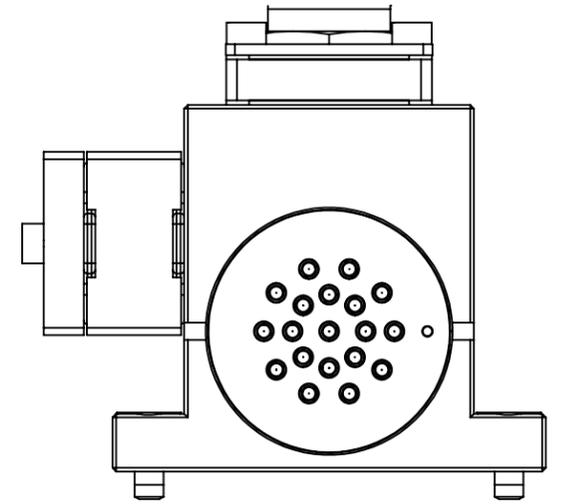
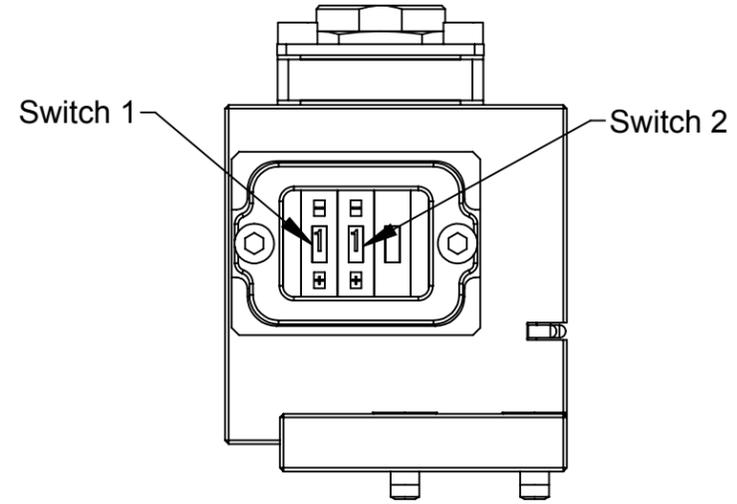
Turck BSFD 19  
19-Pin Male  
Connector  
Scale 3:1

**Sensor Cable**

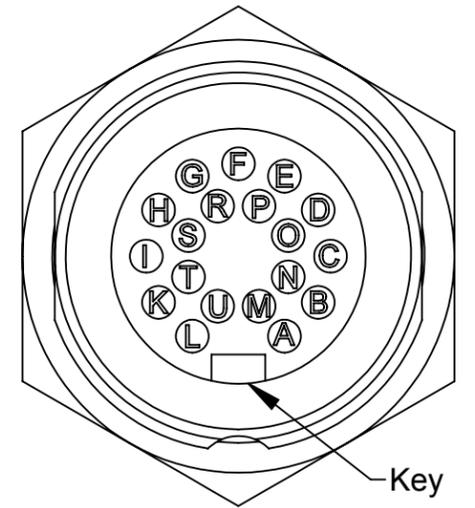


Turck 3-Pin  
M8 Sensor Cable  
Scale 4:1

**Tool Side**



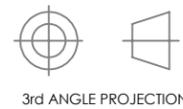
ATI 19-Pin  
Pin Block  
Face View  
Scale 2:1



Turck BKFD 19  
19-Pin Female  
Connector  
Scale 3:1

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| DRAWN BY: P.Luczka, 8/21/13                          |              | TITLE  |                      |
| CHECKED BY: A.Takla, 8/22/13<br>B.Henderson, 8/23/13 |              | RF19R / RF10 Electrical Modules with Sensor cables |                      |
| PROJECT # -  | SHEET 2 OF 3 | SCALE  | REVISION             |
|  |              | 1:1  | 02                   |
|  |              | SIZE   | DRAWING NUMBER       |
|  |              | B  | 9630-20-RF19RM RF10T |

9120-RF19R-M

9120-RF10-T

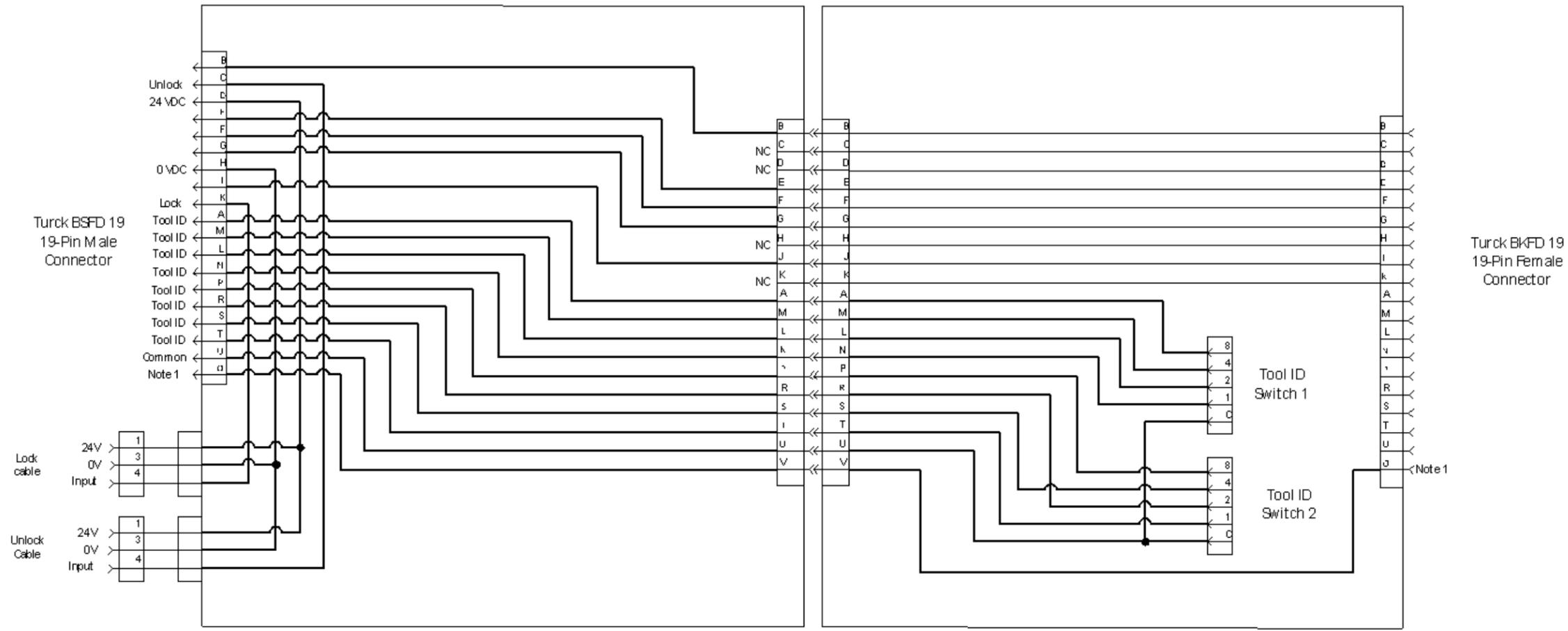


Table 1: Tool Binary output

| Selection Switch | Pin | Pin | Pin | Pin | Switch 1 | Switch 2 |
|------------------|-----|-----|-----|-----|----------|----------|
|                  | A   | M   | L   | N   |          |          |
| 0                | 0   | 0   | 0   | 0   |          |          |
| 1                | 0   | 0   | 0   | 1   |          |          |
| 2                | 0   | 0   | 1   | 0   |          |          |
| 3                | 0   | 0   | 1   | 1   |          |          |
| 4                | 0   | 1   | 0   | 0   |          |          |
| 5                | 0   | 1   | 0   | 1   |          |          |
| 6                | 0   | 1   | 1   | 0   |          |          |
| 7                | 0   | 1   | 1   | 1   |          |          |
| 8                | 1   | 0   | 0   | 0   |          |          |
| 9                | 1   | 0   | 0   | 1   |          |          |

Binary o/p of Selector Switch  
(99) Unique Settings

Notes:

- Pin "V" on the ATI pin block is First-To-Mate and Last-To-Break contact and is recommended as ground.
- Reference Table 1 for Tool ID Binary output.

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| DRAWN BY: P.Luczka, 8/21/13                          |              | TITLE  |      |
| CHECKED BY: A.Takla, 8/22/13<br>B.Henderson, 8/23/13 |              | RF19R / RF10 Electrical Modules with Sensor cables |      |
| PROJECT # -  | SHEET 3 OF 3 | SCALE  | SIZE |
|  |              | 1:1  | B    |
| DRAWING NUMBER                                       |              | REVISION   |      |
| 9630-20-RF19RM RF10T                                 |              | 02   |      |