



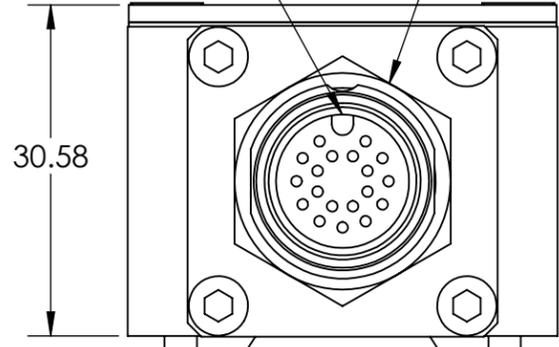
" DANGER!" - Electrical Shock Hazard

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."

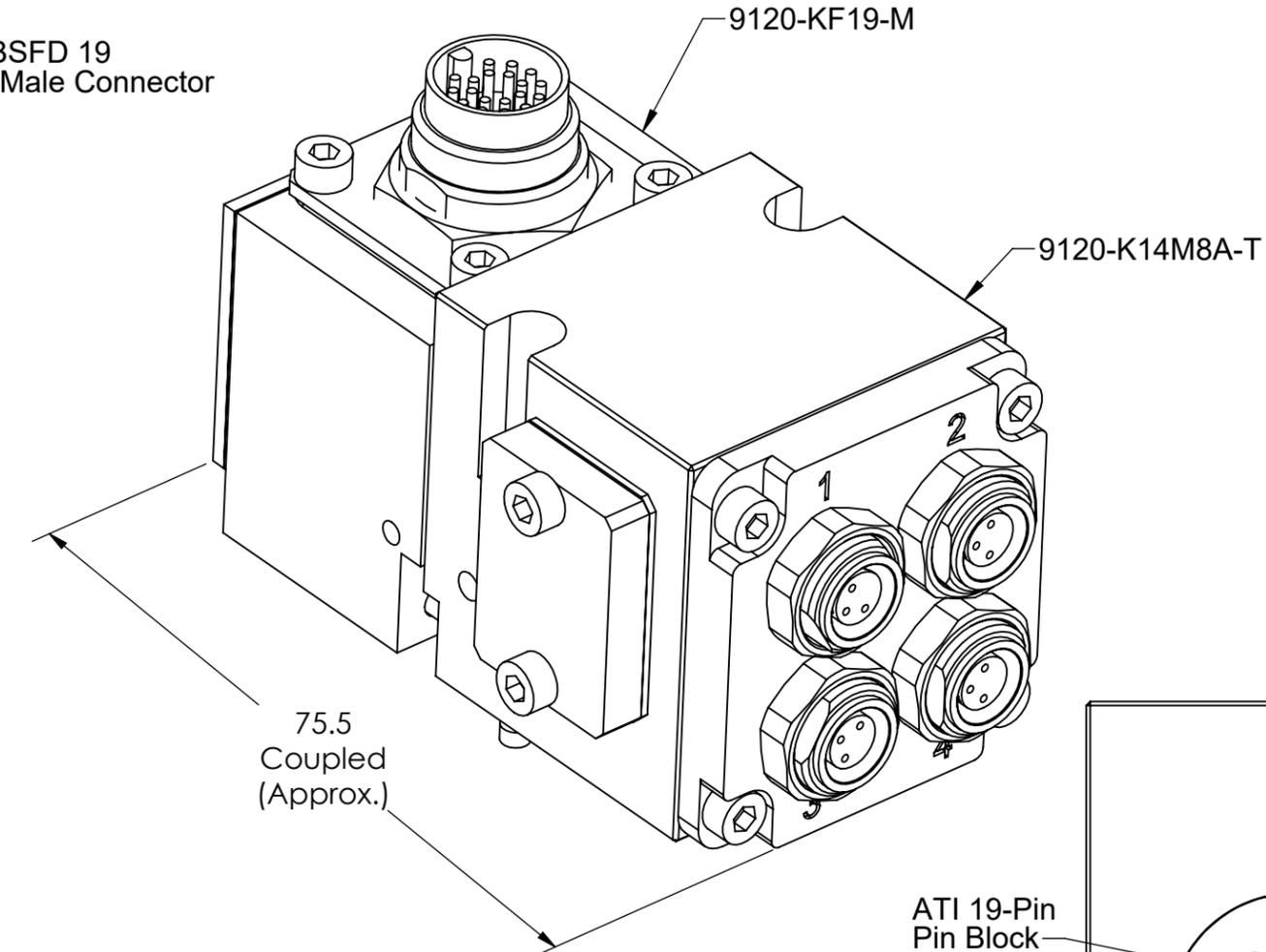
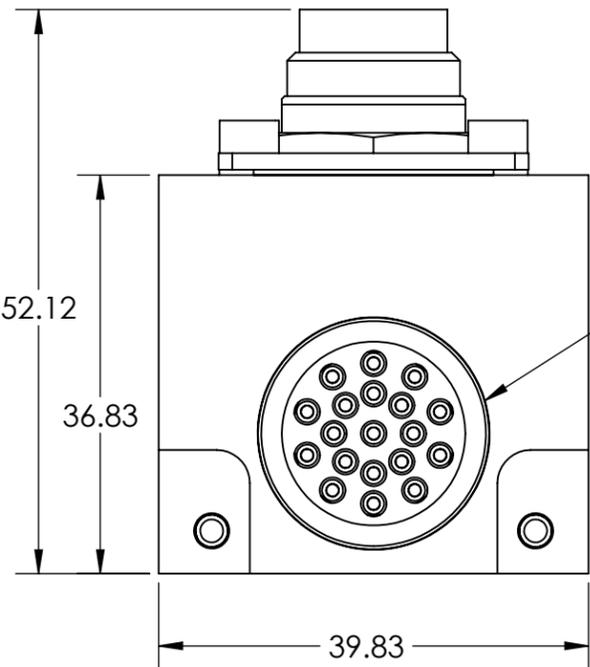
9120-KF19-M

Rev.	Description	Initiator	Date
04	Eco 19011; Replaced Fastener 3500-1058012-15A with 3500-1058010-15A to account for decrease in Gasket 3700-20-5622 thickness.	CF	11/11/2020

Key Orientation
Turck BSFD 19
19-Pin Male Connector

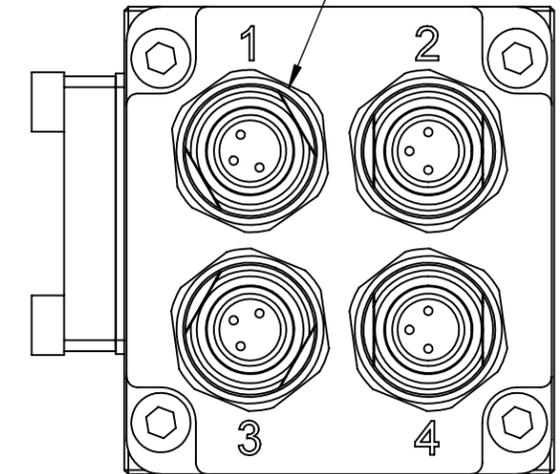


Serviceable Part
4010-0000017-01
V-Ring

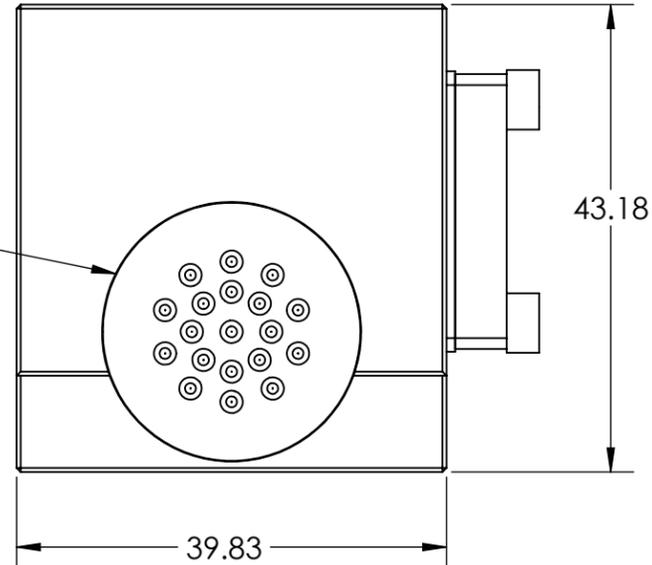


9120-K14M8A-T

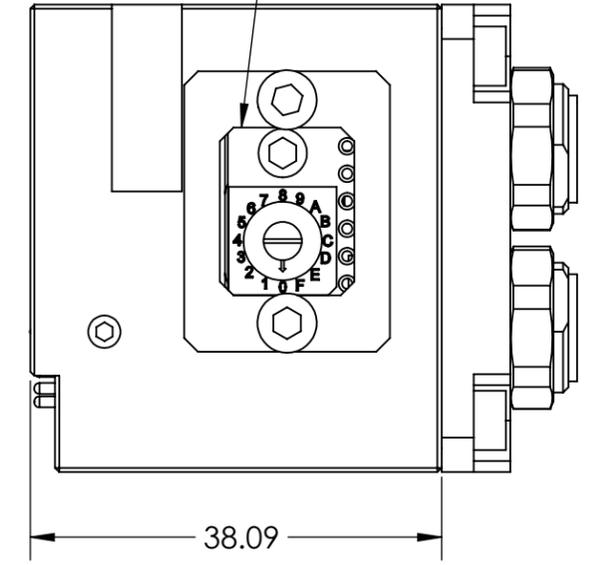
4X Turck MFKS 3F-PCBF
M8, 3-Pin Connector



ATI 19-Pin
Pin Block

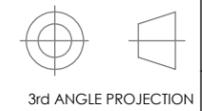


Rotary Switch
0-F Tool ID



- Notes:
1. Customer approval of electrical schematic is required.
 2. Customer is to approve connector selection and orientation.
 3. See sheet 3 for module wiring schematic.

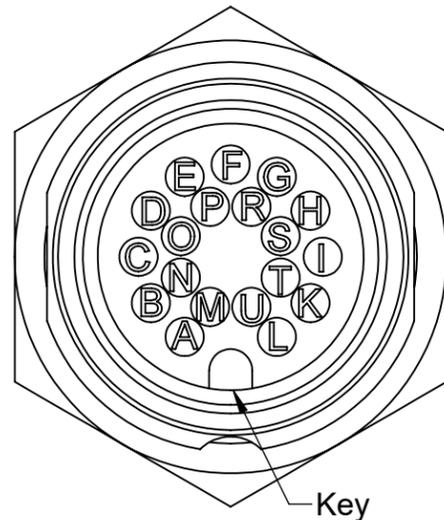
NOTES: UNLESS OTHERWISE SPECIFIED.
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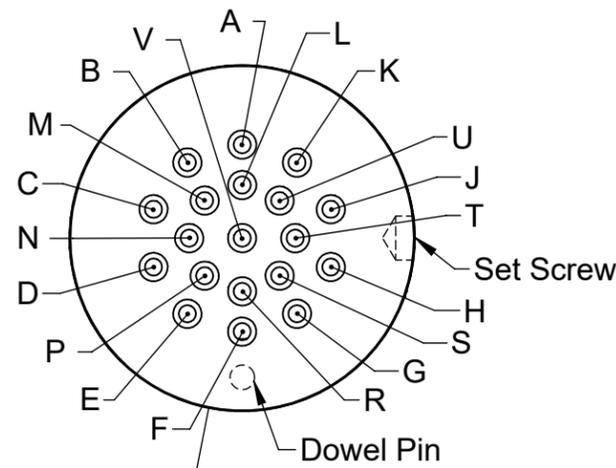
1031 Goodworth Drive, Apex, NC 27539, USA
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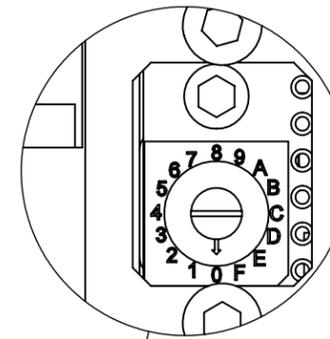
DRAWN BY: P.Luczka, 6/1/13		TITLE	
CHECKED BY: A.Takla, 6/12/13 B.Henderson, 6/14/13		KF19-M / K14M8A-T Electrical Modules, 0-F Tool ID, M8 connectors	
PROJECT # 121022-1 SHEET 1 OF 3	SCALE 1:1	SIZE B	DRAWING NUMBER 9630-20-KF19M K14M8AT
			REVISION 04



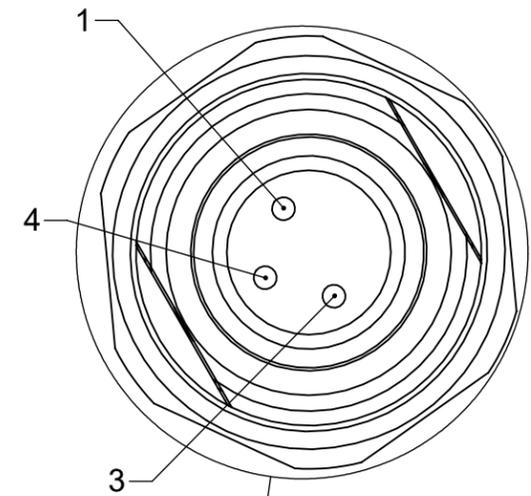
Turck BSFD 19
19-Pin Male Connector
Face View
Scale 2:1



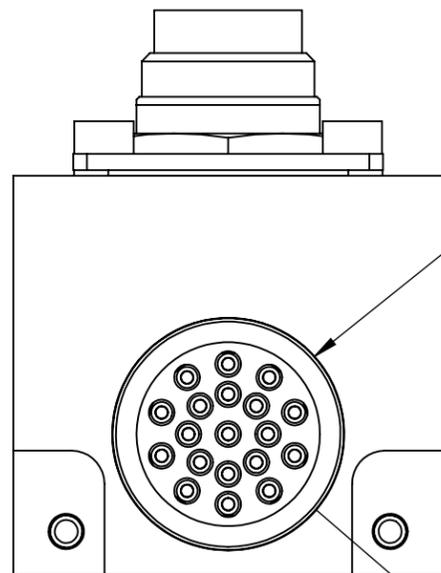
DETAIL D
SCALE 2:1



DETAIL C
SCALE 2:1

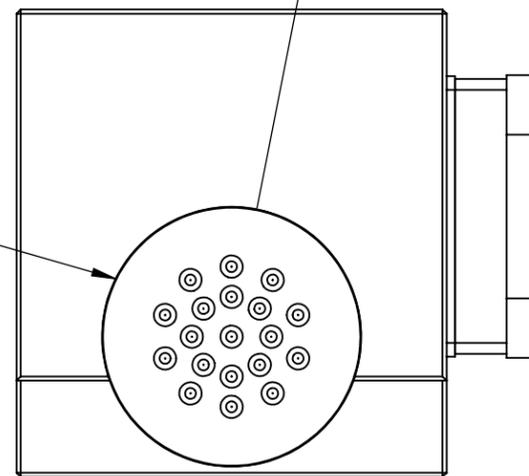


DETAIL B
SCALE 4:1

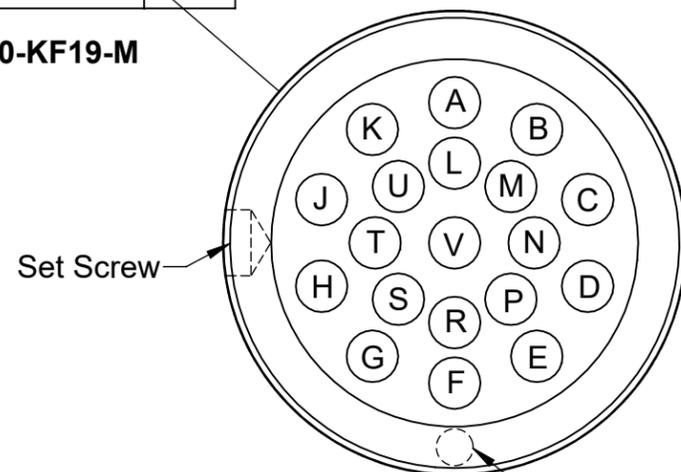
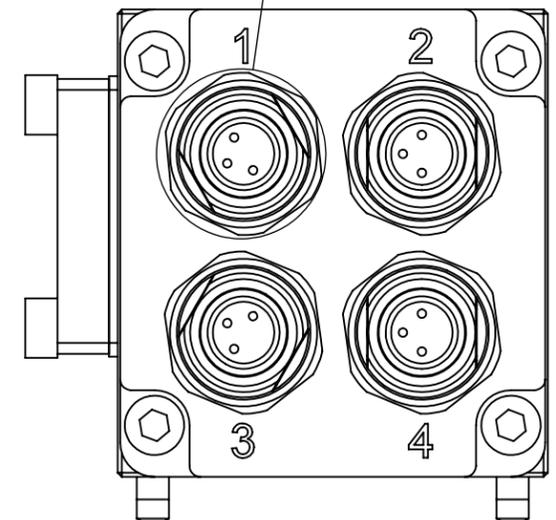
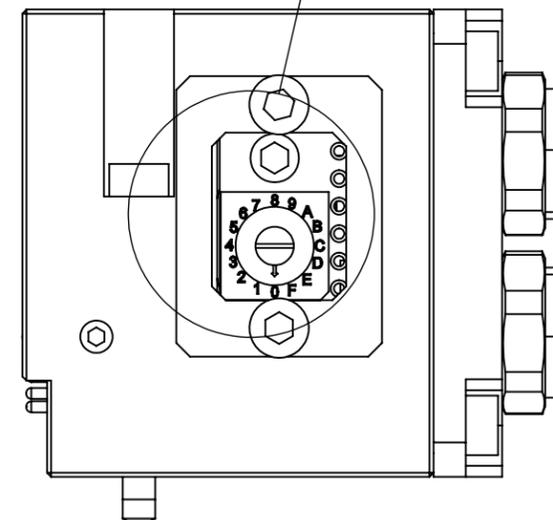


9120-KF19-M

ATI 19-Pin
Tool
Pin Block



9120-K14M8A-T



DETAIL E
SCALE 3:1

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CHECKED BY: A.Takla, 6/12/13 B.Henderson, 6/14/13		KF19-M / K14M8A-T Electrical Modules, 0-F Tool ID, M8 connectors	
PROJECT # 121022-1	SHEET 2 OF 3	SCALE 1:1	SIZE B
		DRAWING NUMBER	REVISION
		9630-20-KF19M K14M8AT	04

Electrical Schematic

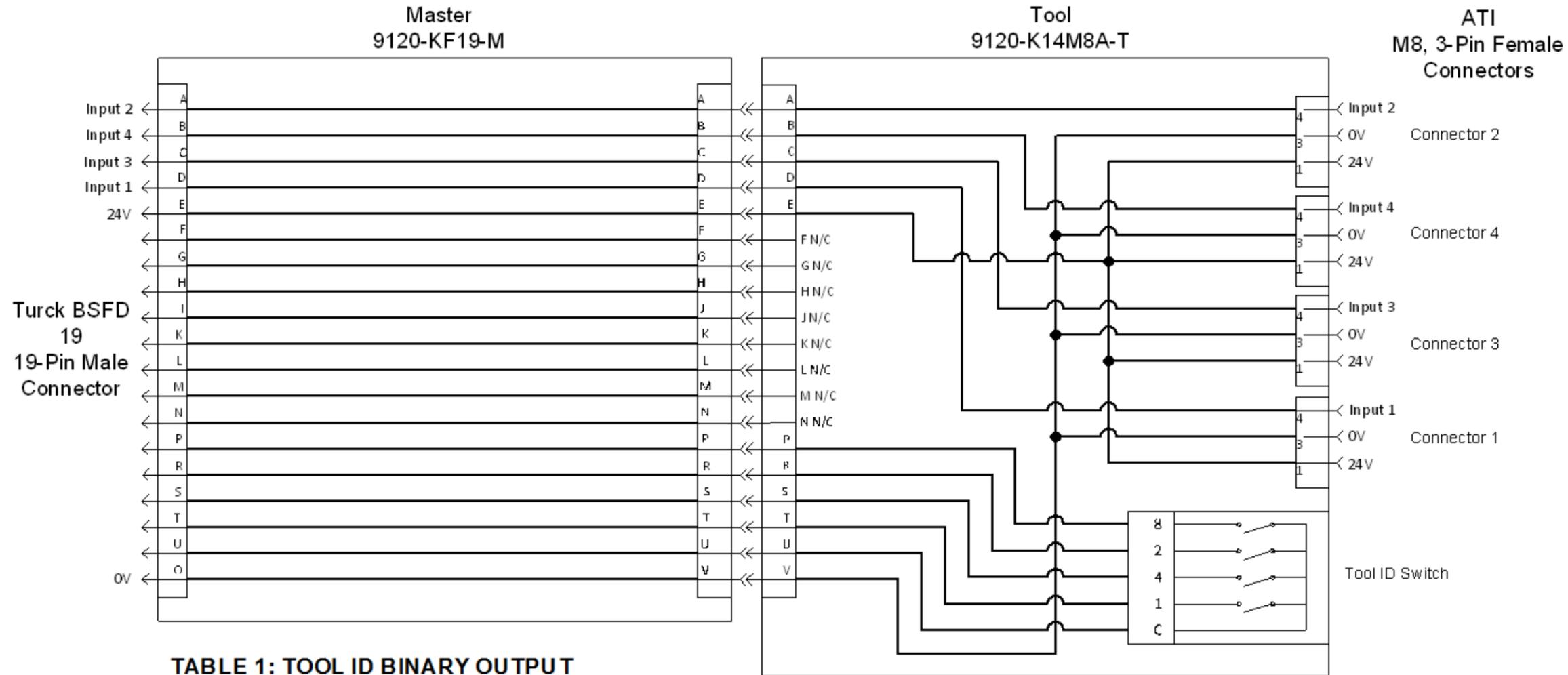


TABLE 1: TOOL ID BINARY OUTPUT

Switch Selection	Pin P	Pin S	Pin R	Pin T
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
A	1	0	1	0
B	1	0	1	1
C	1	1	0	0
D	1	1	0	1
E	1	1	1	0
F	1	1	1	1

Notes:

- Pin "V" on ATI pin block is First-To-Mate and last-to-break contact, recommended as ground.
- Tool ID circuit is rated to 30V, 100mA. All four (4) M8 connector circuits are rated to 30V, 150mA.
- See Table 1 for Tool ID binary output. Pin U is common.

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CHECKED BY: A.Takla, 6/12/13 B.Henderson, 6/14/13		KF19-M / K14M8A-T Electrical Modules, 0-F Tool ID, M8 connectors	
PROJECT # 121022-1	SHEET 3 OF 3	SCALE 1:1	SIZE B
DRAWING NUMBER 9630-20-KF19M K14M8AT		REVISION 04	