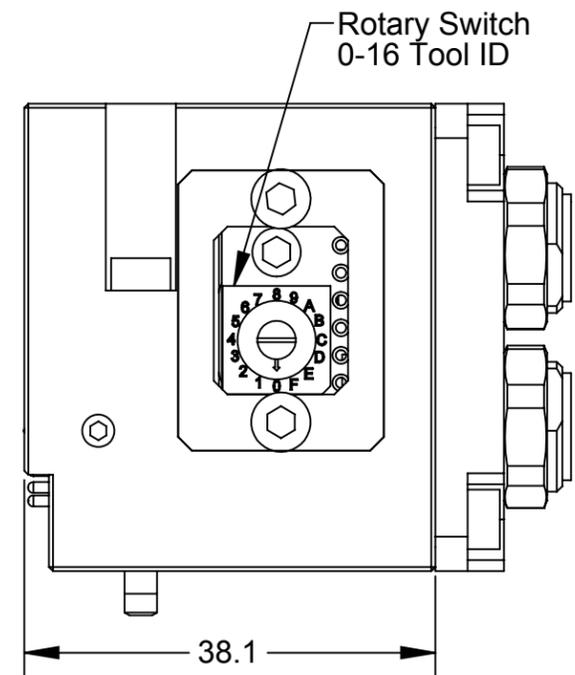
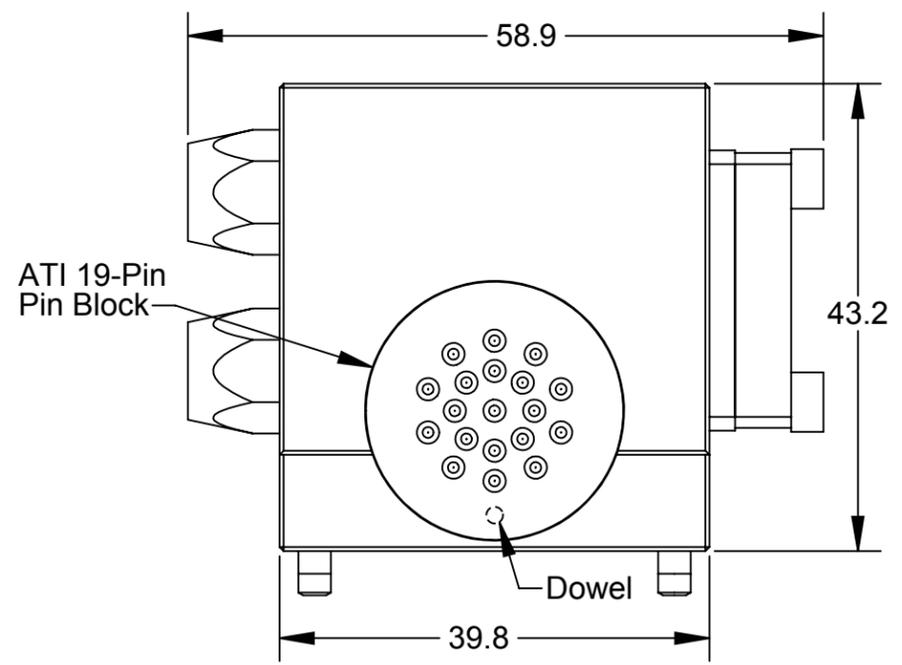
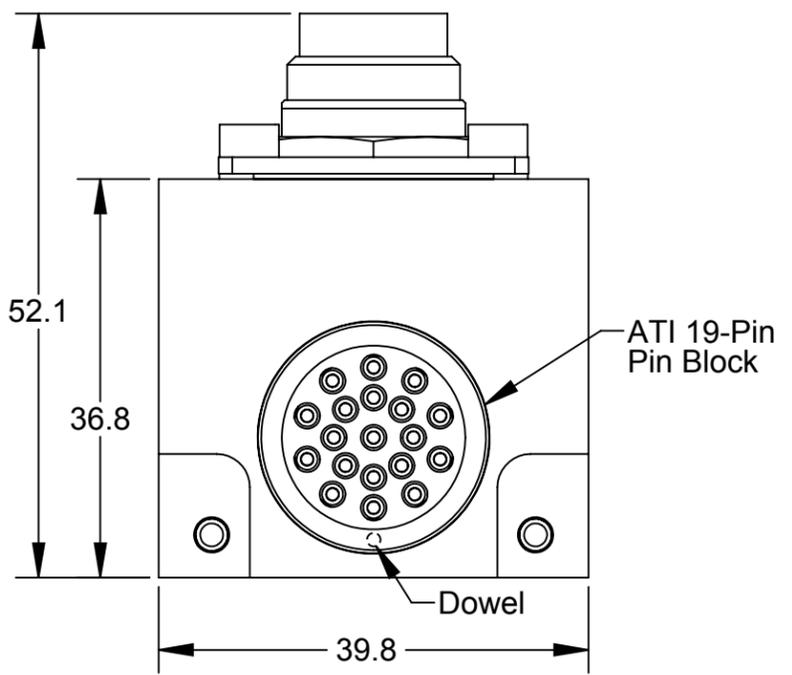
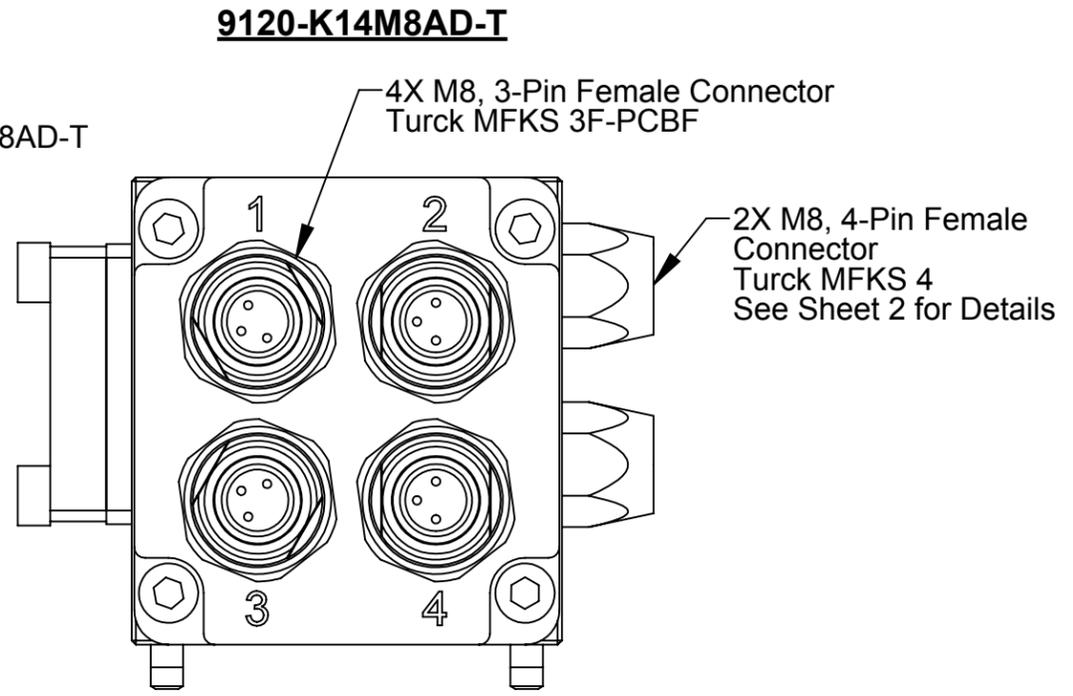
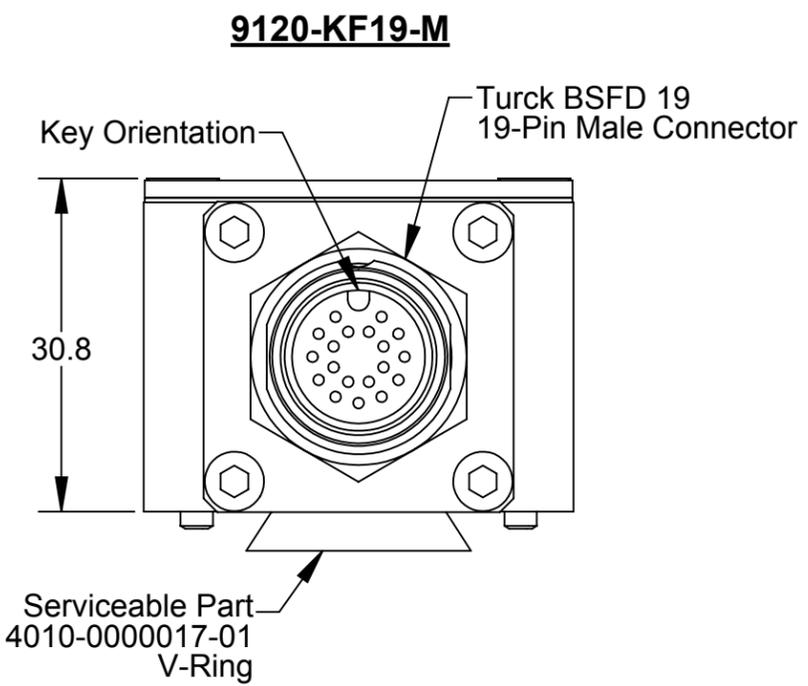
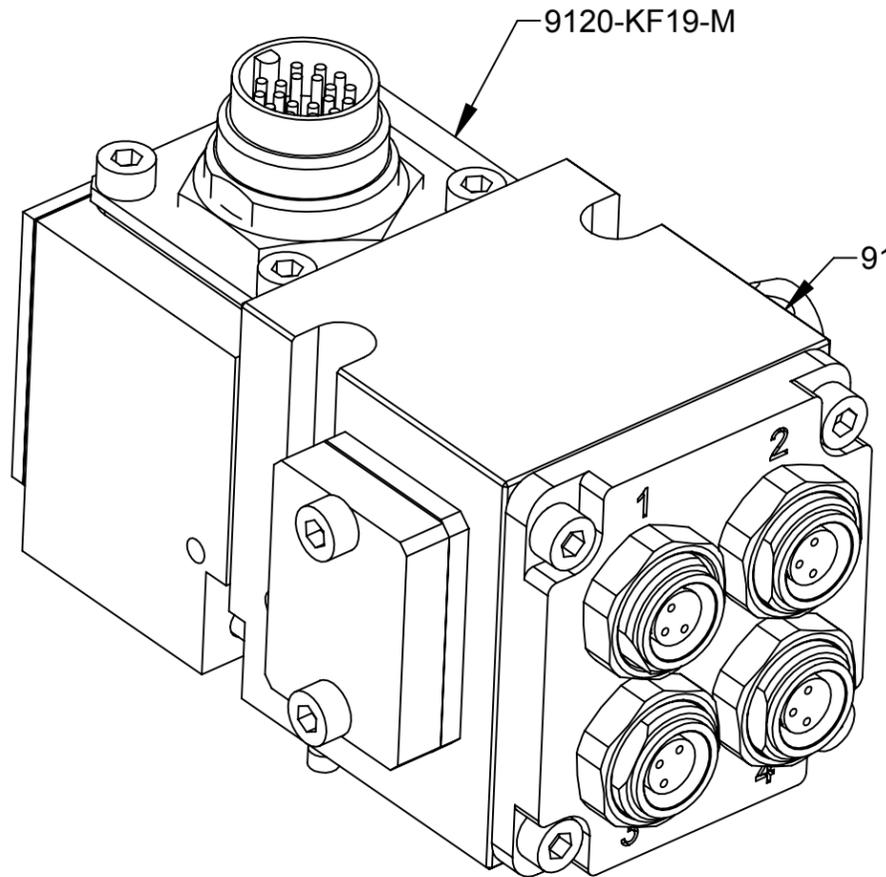


Rev.	Description	Initiator	Date
04	Release. No changes.	WB	6/27/2018



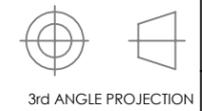
Notes:
 1. Customer approval of electrical schematic is required.
 2. Customer is to approve connector selection and orientation.
 3. See Sheet 3 for module wiring schematic.

NOTES: UNLESS OTHERWISE SPECIFIED.
 DO NOT SCALE DRAWING. ALL DIMENSIONS ARE IN MILLIMETERS.

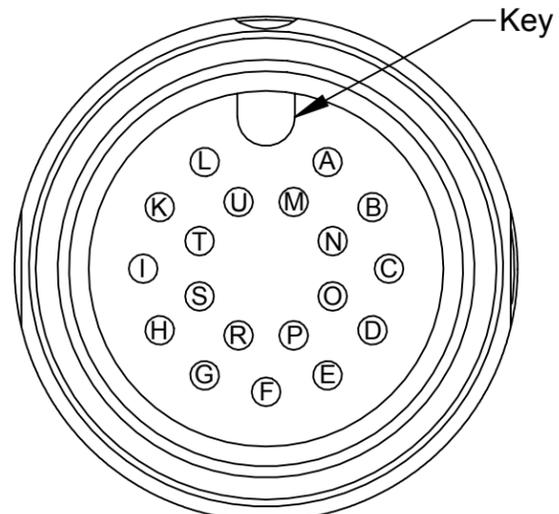
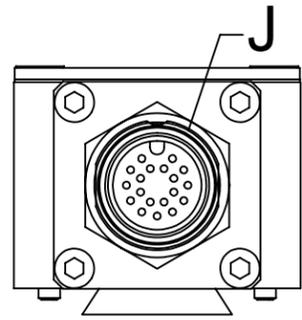


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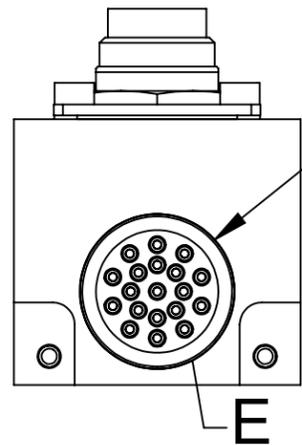


DRAWN BY: W. Berrocal, 5/16/18		TITLE	
CHECKED BY: B. Smith, 5/24/18 K. Davis, 5/24/18		KF19-M / K14M8AD-T Electrical Modules, 16 Tool ID, Six M8 connectors	
PROJECT # 180426-2	SHEET 1 OF 3	SCALE 1:1	SIZE B
		DRAWING NUMBER	REVISION
		9630-20-KF19M K14M8ADT	04



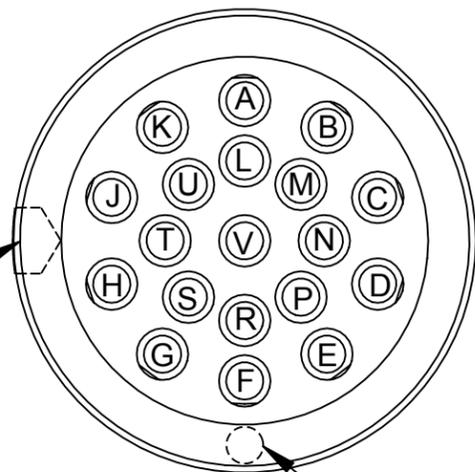
DETAIL J
SCALE 4 : 1

9120-KF19-M

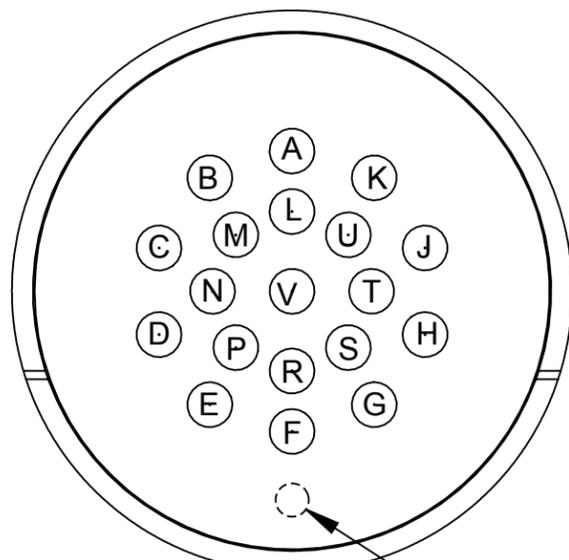


ATI 19-Pin
Master
Pin Block

Set Screw

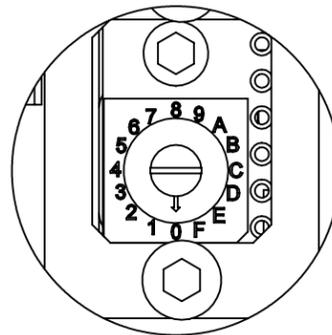
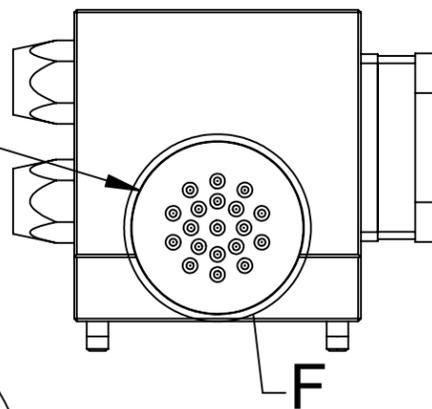


DETAIL E
SCALE 3 : 1
Dowel Pin

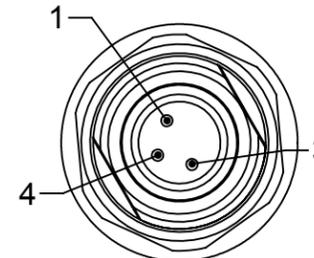


DETAIL F
SCALE 3 : 1
Dowel

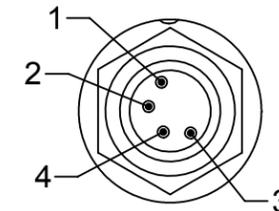
ATI 19-Pin
Tool
Pin Block



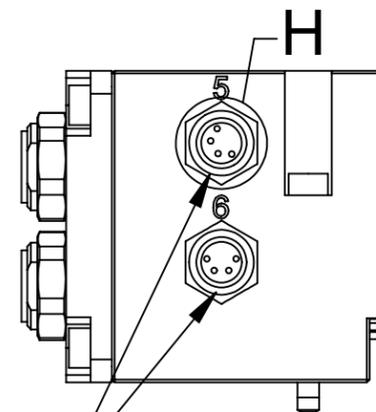
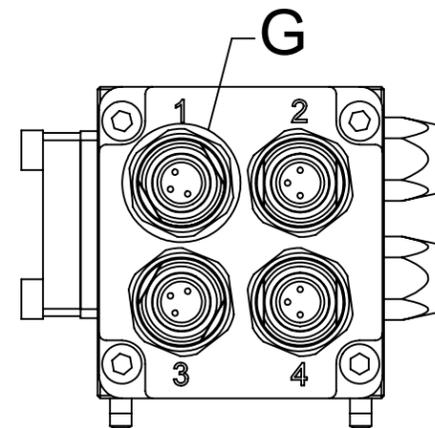
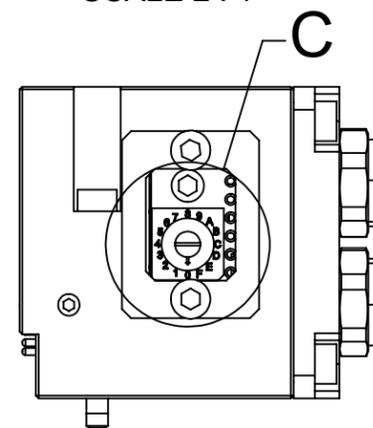
DETAIL C
SCALE 2 : 1



DETAIL G
SCALE 2 : 1



DETAIL H
SCALE 2 : 1

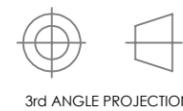


9120-K14M8AD-T

**Connector orientation
is not guaranteed**

NOTES: UNLESS OTHERWISE SPECIFIED.

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DRAWN BY: W. Berrocal, 5/16/18

CHECKED BY: B. Smith, 5/24/18

K. Davis, 5/24/18

PROJECT # 180426-2 SHEET 2 OF 3

TITLE

KF19-M / K14M8AD-T Electrical Modules, 16 Tool ID, Six M8 connectors

SCALE
1:1

SIZE
B

DRAWING NUMBER
9630-20-KF19M K14M8ADT

REVISION
04

9120-KF19-M

Electrical Schematic

9120-K14M8AD-T

M8, 3-Pin and 4-Pin Female Connectors

19-Pin Male Connector

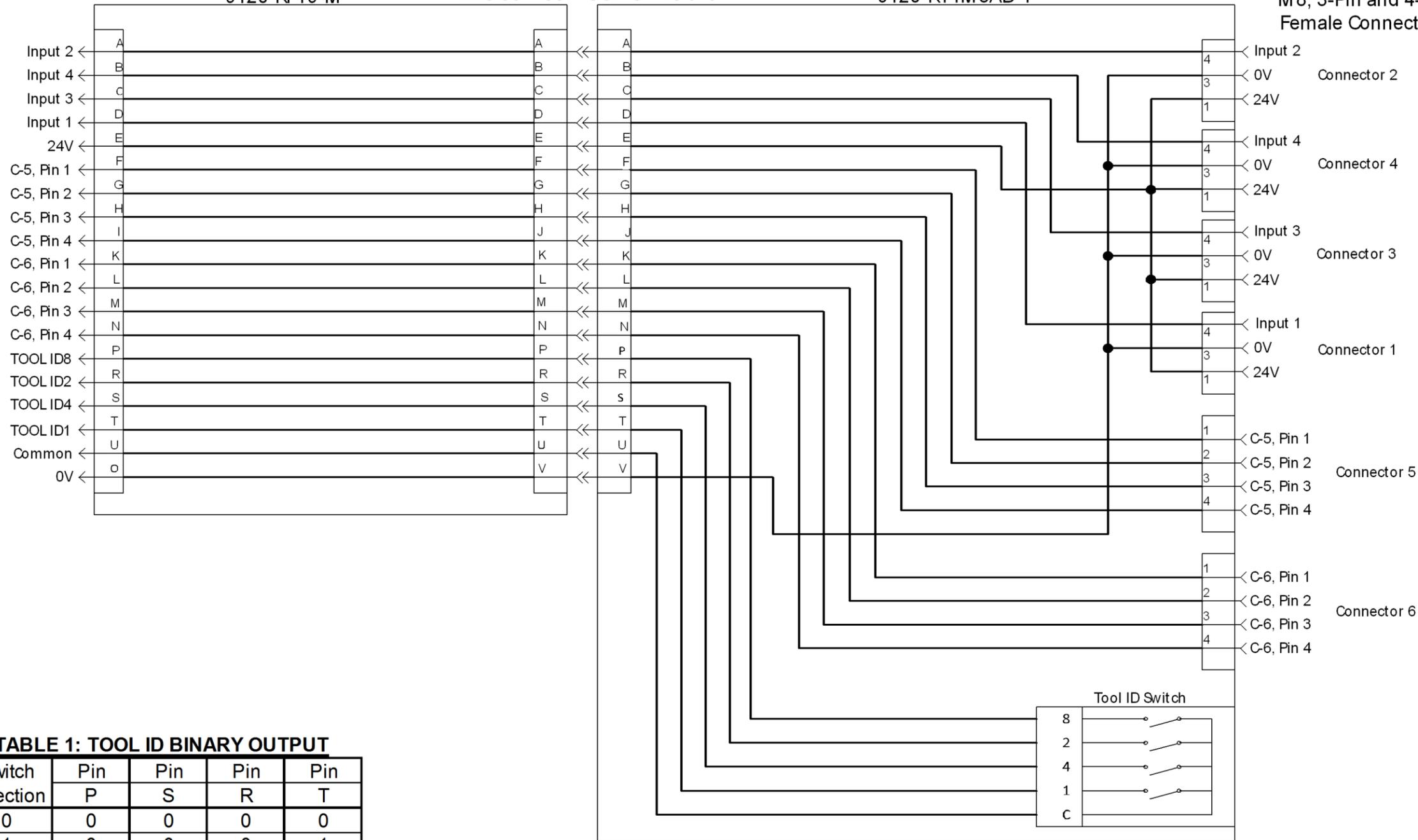


TABLE 1: TOOL ID BINARY OUTPUT

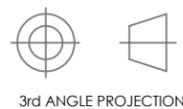
Switch Selection	Pin P	Pin S	Pin R	Pin T
0	0	0	0	0
1	0	0	0	1
2	0	0	1	0
3	0	0	1	1
4	0	1	0	0
5	0	1	0	1
6	0	1	1	0
7	0	1	1	1
8	1	0	0	0
9	1	0	0	1
A	1	0	1	0
B	1	0	1	1
C	1	1	0	0
D	1	1	0	1
E	1	1	1	0
F	1	1	1	1

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. The four 3-Pin M8 connector circuits are rated to 30V, 150mA. The two 4-Pin M8 connector circuits are rated to 30V, 3A.
- See Table 1 for Tool ID binary output. Pin U is common.

NOTES: UNLESS OTHERWISE SPECIFIED.

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DRAWN BY: W. Berrocal, 5/16/18		TITLE	
CHECKED BY: B. Smith, 5/24/18 K. Davis, 5/24/18		KF19-M / K14M8AD-T Electrical Modules, 16 Tool ID, Six M8 connectors	
PROJECT # 180426-2	SHEET 3 OF 3	SCALE 1:1	SIZE B
DRAWING NUMBER 9630-20-KF19M K14M8ADT		REVISION 04	