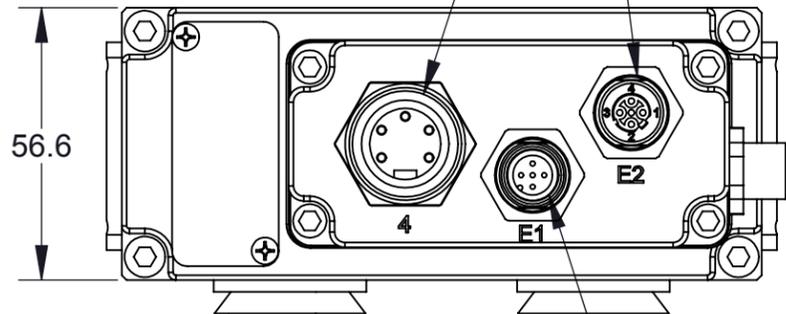


**DT4 Master Module
(9121-DT4-M)**

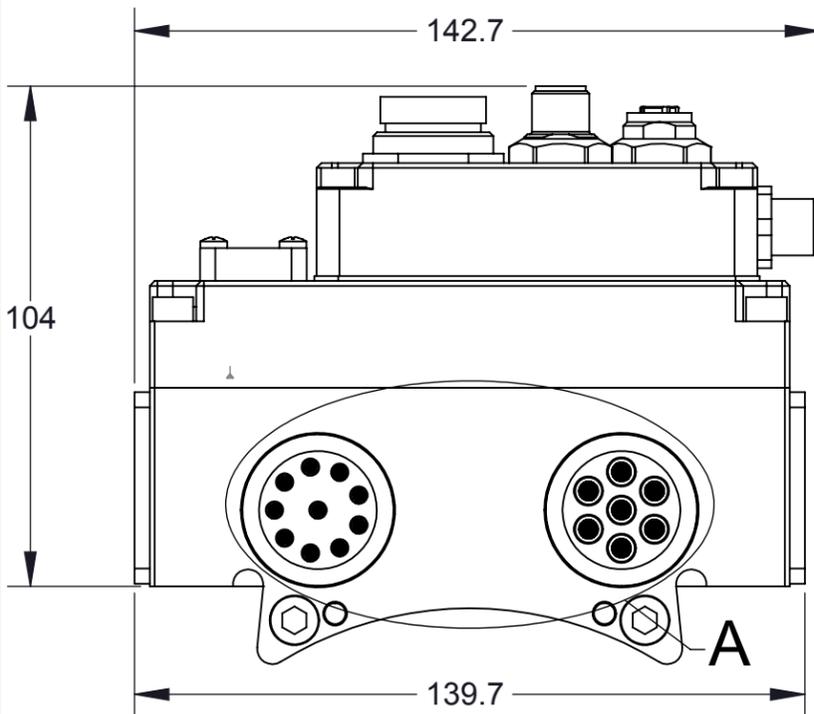
Auxiliary Power Connector
5-Pin Male Mini
Turck RSFL 56

Profinet Pass-Through Connector, E2
M12, 4-Contact Female, D-Coded
Turck FKFDD



4010-000030-01
V-Ring Seal
Serviceable Part

Tool Present Connector, E1
M12, 5-Pin Male
Turck FSFDL 4.5

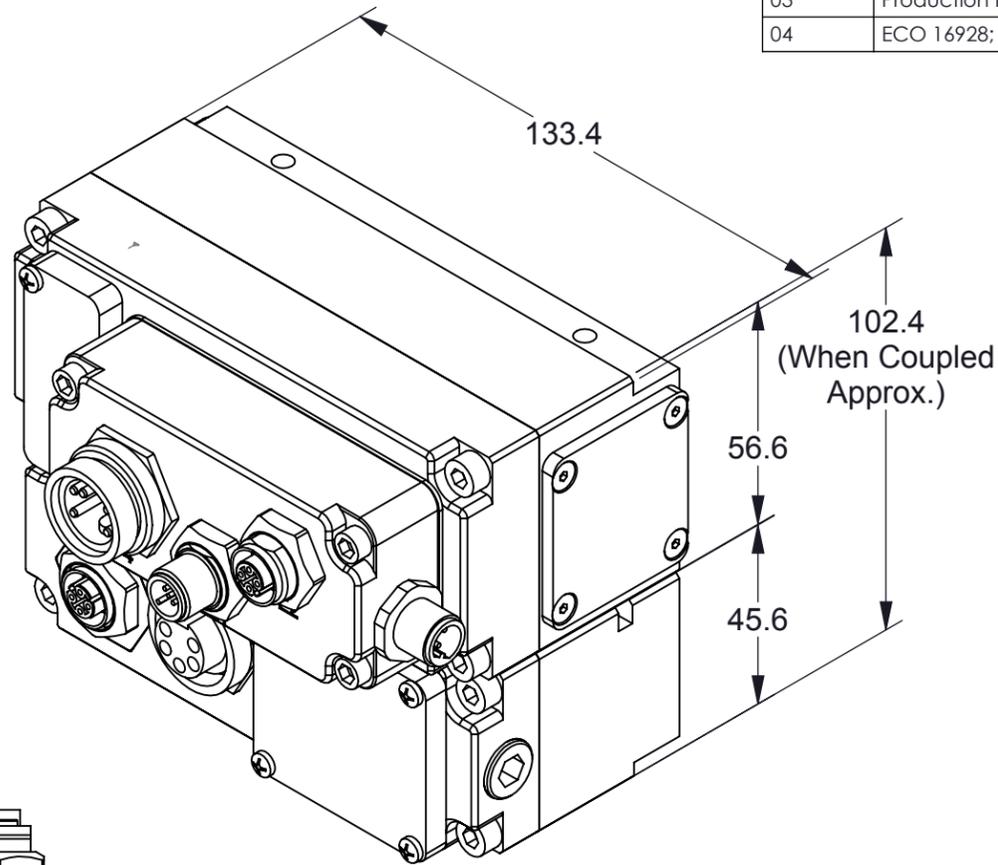


104

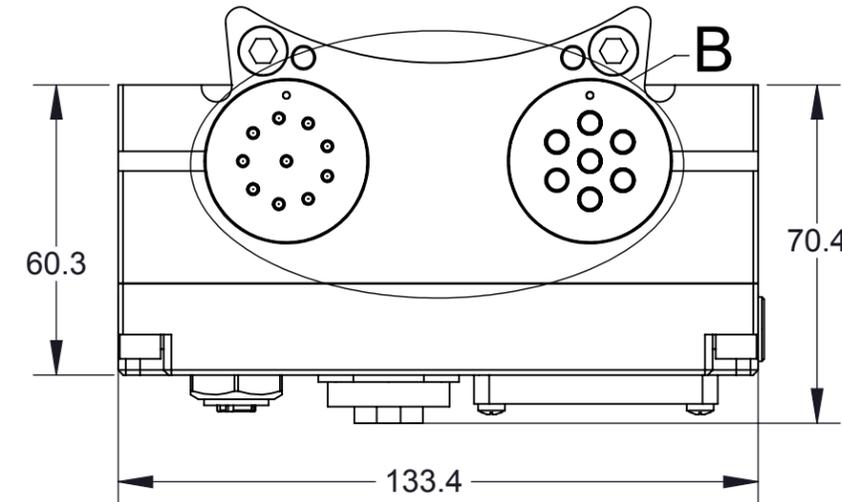
Notes:

1. Reference the manual for information related to Arc Prevention control and Tool Present signals.
2. Connectors are oriented as shown unless otherwise specified.
3. Pin Block signal assignments are shown on Sheet 2.
4. Connector pin-outs are shown on Sheet 3.
5. Electrical schematic of DT4 Master and Tool is shown on Sheet 4.

Rev.	Description	Initiator	Date
01P	Initial Drawing	BGBP	06/01/2016
02P	Checked by Electrical Group	BGBP	6/29/2016
03	Production Release	BGBP	8/1/2016
04	ECO 16928; Sheet 4: Added Schematic Notes 4 & 5.	MLS	6/8/2018

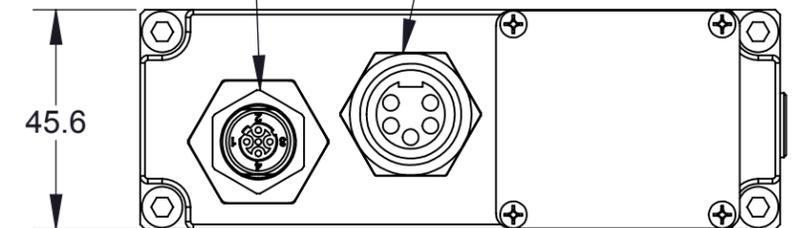


**DT4 Tool Module
(9121-DT4-T)**

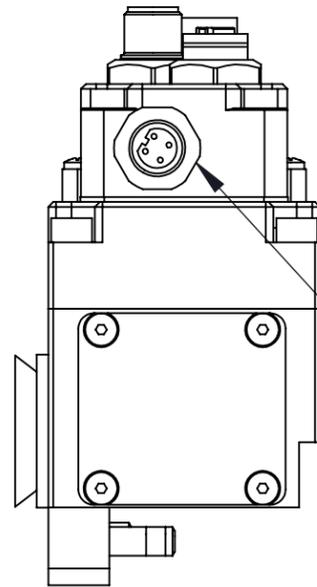


Tool Profinet Connector
M12, 4-Contact Female, D-Coded
Turck FKFDD

Auxiliary Power Connector
5-Pin Female Mini
Turck RKFL 56



Arc Prevention Control Connector
M12, 4-Pin Male
Turck FS 4.4



NOTES: UNLESS OTHERWISE SPECIFIED.

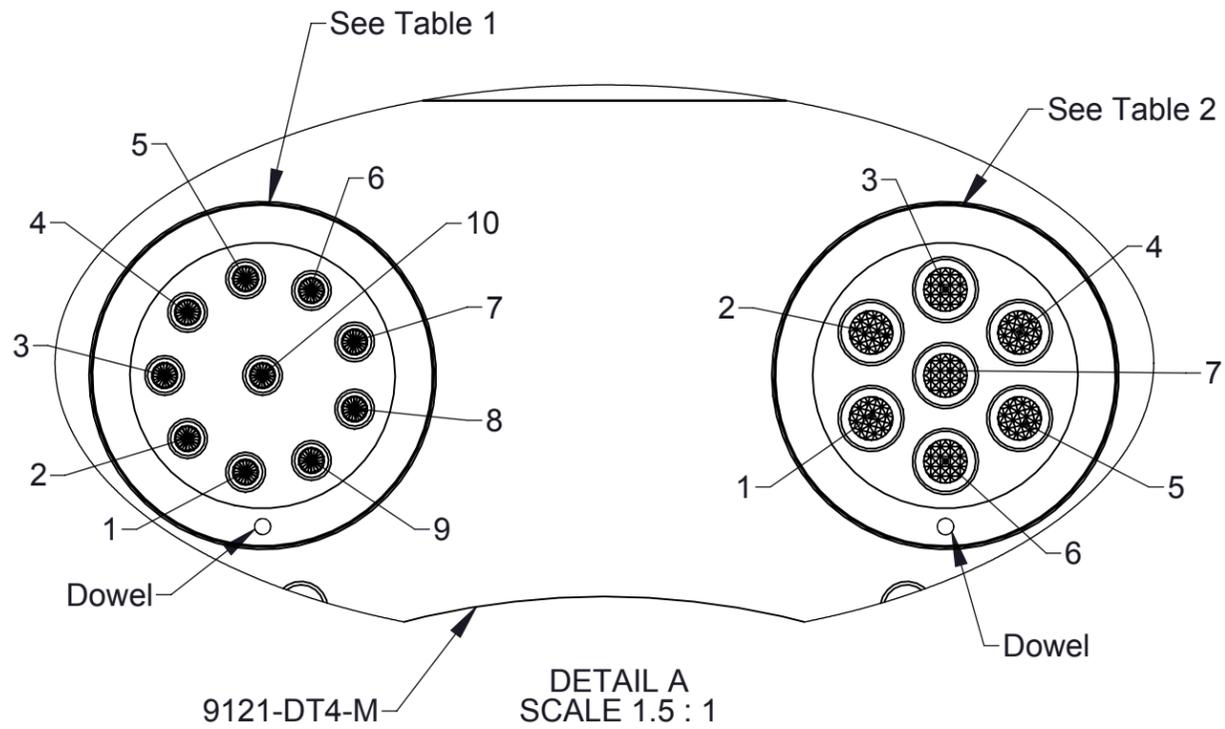
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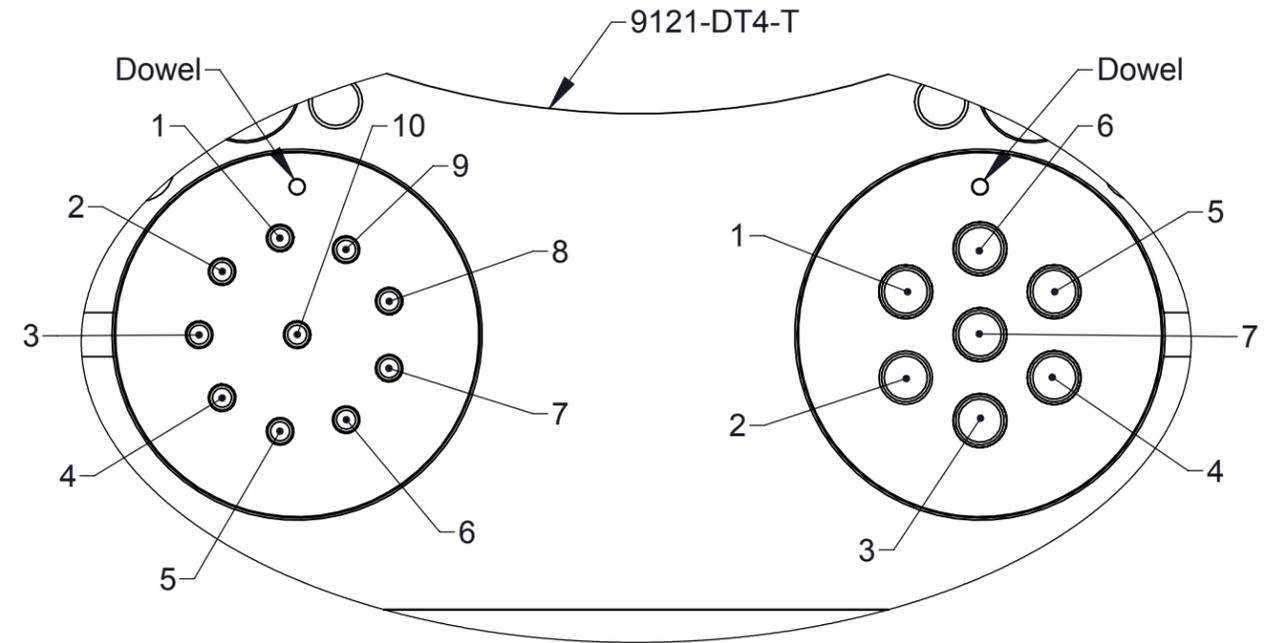
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CHECKED BY: W. Berrocal 06/02/16 A. Strotzer 06/29/16		DT4 Module Drawing	
SCALE	SIZE	DRAWING NUMBER	REVISION
2:3	B	9630-20-DT4	04
PROJECT # 160527-1 SHEET 1 OF 4			



DETAIL A
SCALE 1.5 : 1



DETAIL B
SCALE 1.5 : 1

Table 1 10-Pin Block Pin Assignment	
1	N/C
2	Tx+
3	Tx-
4	OUT
5	IN (24V)
6	N/C
7	Rx+
8	Rx-
9	N/C
10	Profinet Shield

Table 2 7-Pin Block Pin Assignment	
1	US1- (Unswitched)
2	Arc Switch Enable (US1-)
3	US2- (Switched)
4	US2+ (Switched)
5	N/C
6	US1+ (Unswitched)
7	FE

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3rd ANGLE PROJECTION



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PROJECT #	160527-1	SCALE	2:3
SHEET	2	SIZE	B
OF	4	DRAWING NUMBER	9630-20-DT4
			REVISION
			04

Table 3 Auxiliary Power Connector	
1	US2- (Switched)
2	US1- (Unswitched)
3	FE
4	US1+ (Unswitched)
5	US2+ (Switched)

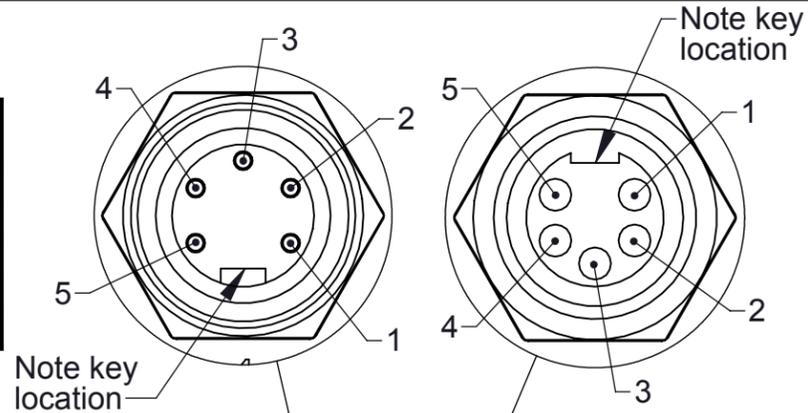


Table 6 Tool Present Connector	
1	IN (24V)
2	N/C
3	N/C
4	OUT
5	N/C

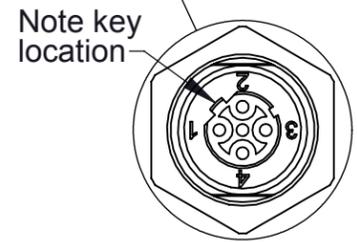
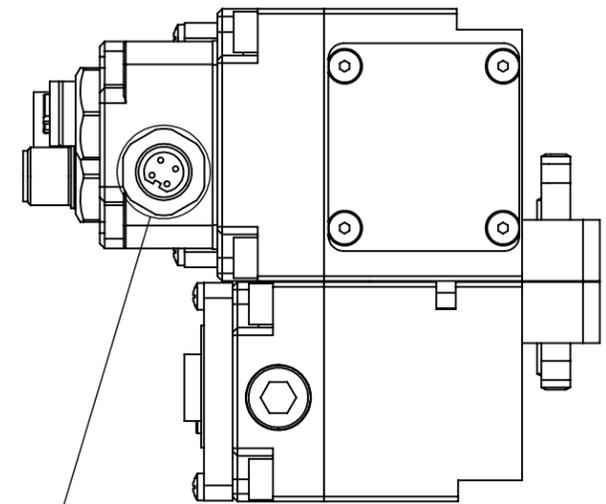
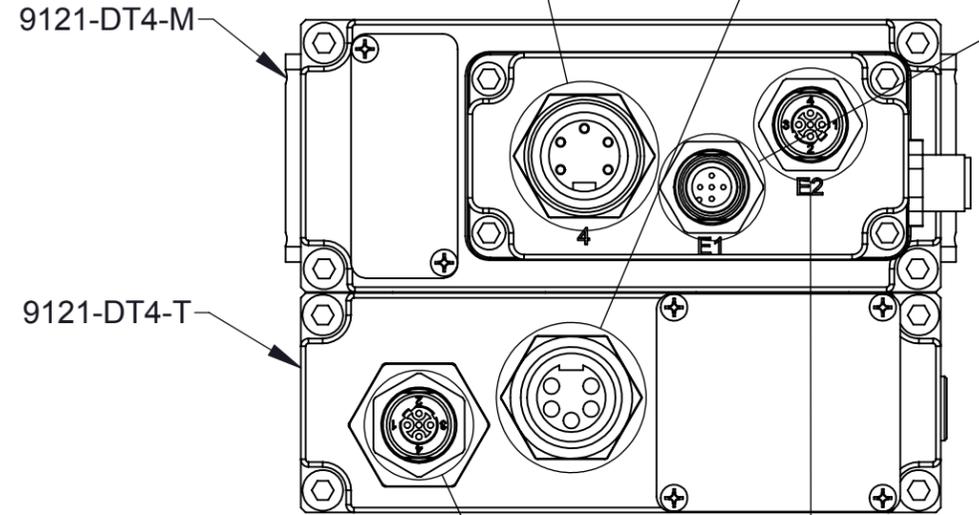
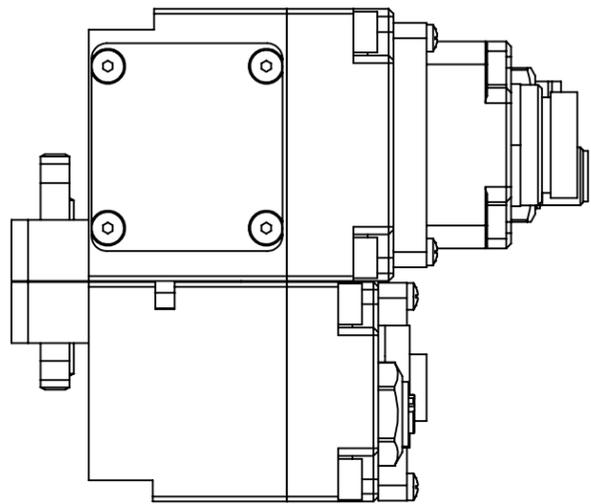
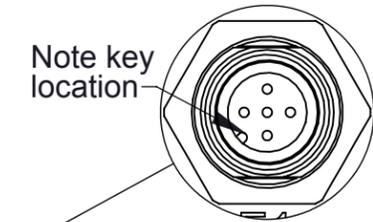


Table 4 Profinet Connector	
1	Tx+
2	Rx+
3	Tx-
4	Rx-

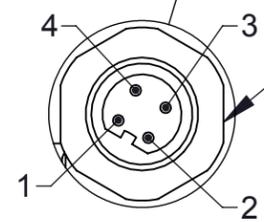
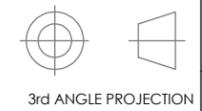


Table 5 Arc Prevention Control Connector	
1	N/C
2	ON
3	GND
4	OFF

Connector orientation not guaranteed

NOTES: UNLESS OTHERWISE SPECIFIED.

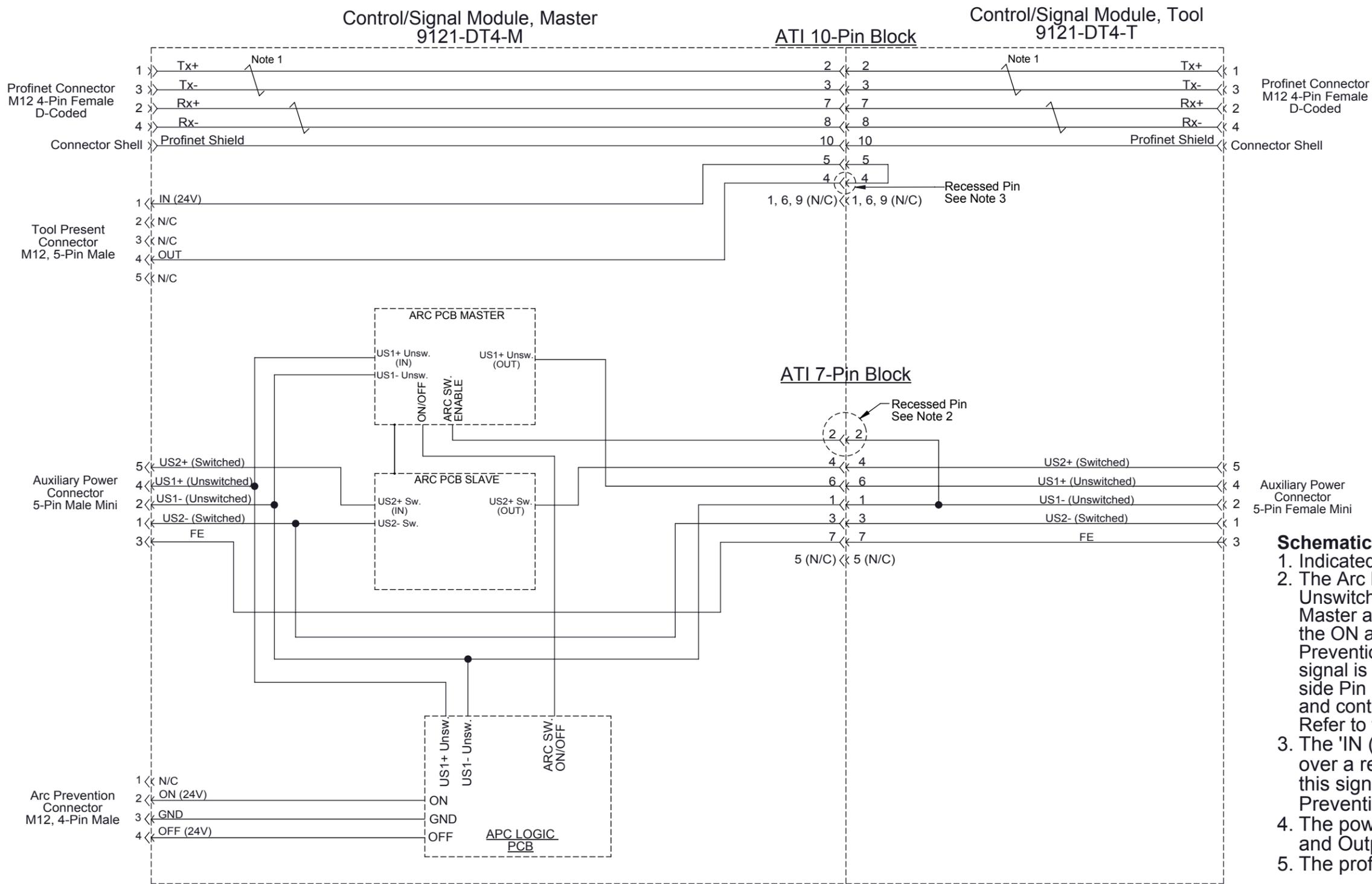
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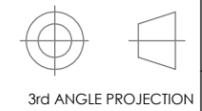
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PROJECT #	160527-1	SHEET	3 OF 4
SCALE	2:3	SIZE	B
DRAWING NUMBER	9630-20-DT4		REVISION
			04



- Schematic Notes:**
1. Indicated wire pairs are twisted.
 2. The Arc Prevention Circuits turn off Switched V+ and Unswitched V+ during coupling and uncoupling of the Master and Tool. The switching function is controlled by the ON and OFF 24V signals from the 4-Pin Arc Prevention Control Connector. The Arc Switch Enable signal is transmitted through a recessed pin in the Tool side Pin Block. This ensures that all of the spring probes and contact pins are touching when power is turned on. Refer to the product manual for additional information.
 3. The 'IN (24V)' output is routed through the tool-side over a recessed pin and back to the controller. When this signal is active the controller can turn the Arc Prevention Circuit on.
 4. The power circuit is rated to 8A, 12-30VDC at Input and Output
 5. The profinet circuit is rated to 2A, 60VDC maximum.

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PROJECT # 160527-1	SHEET 4 OF 4	SCALE 2:3	SIZE B
		DRAWING NUMBER 9630-20-DT4	REVISION 04