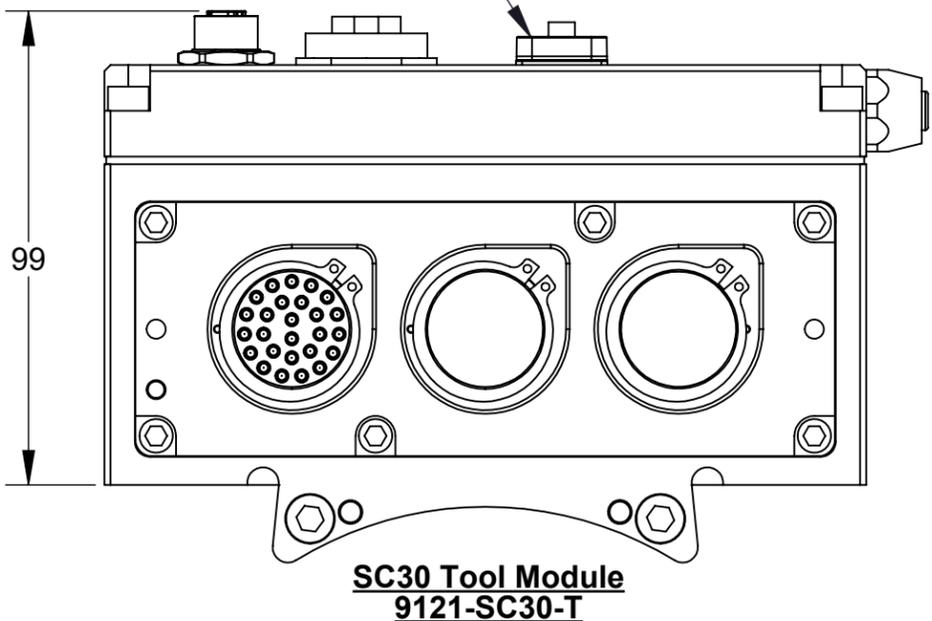
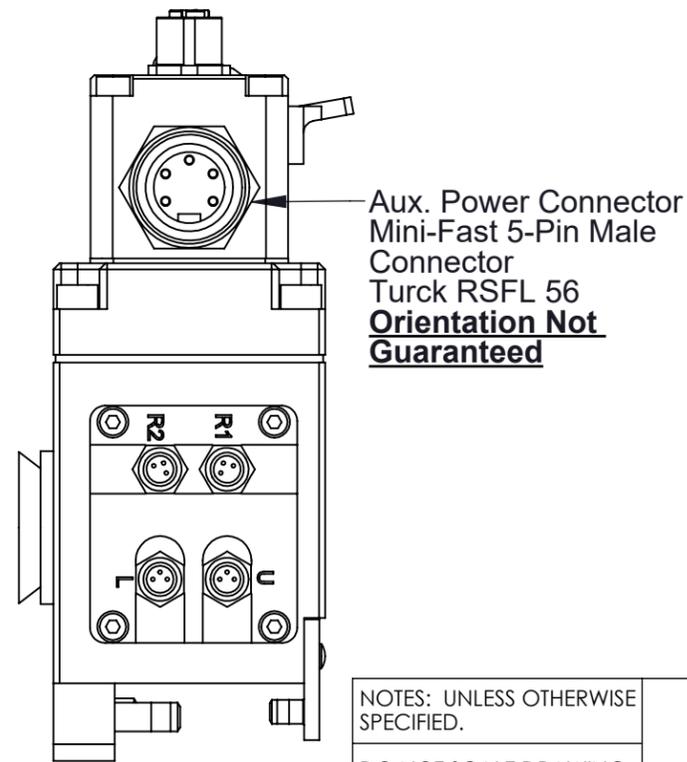
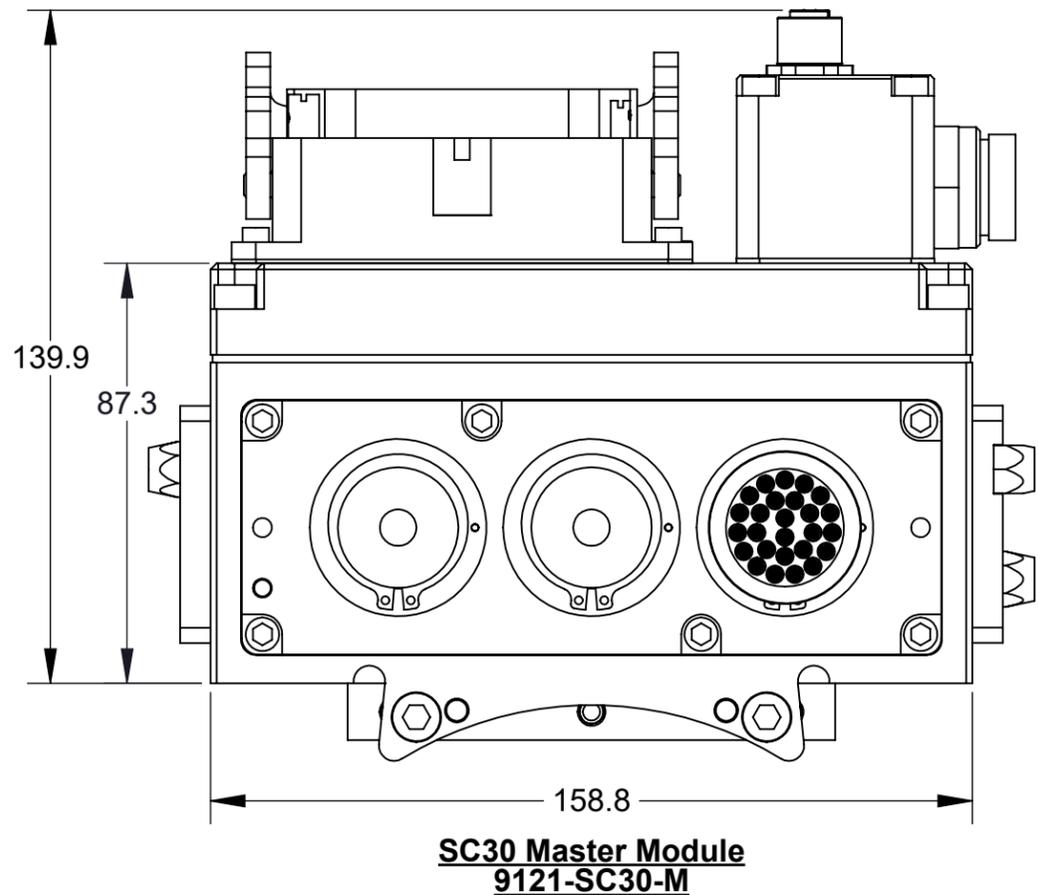
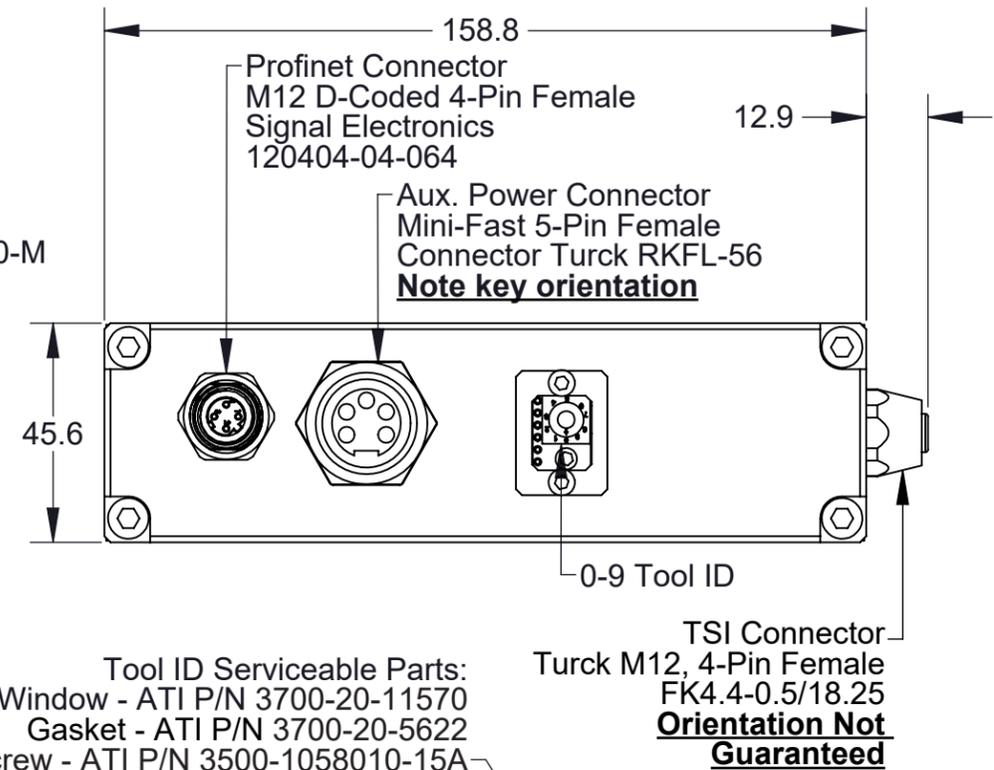
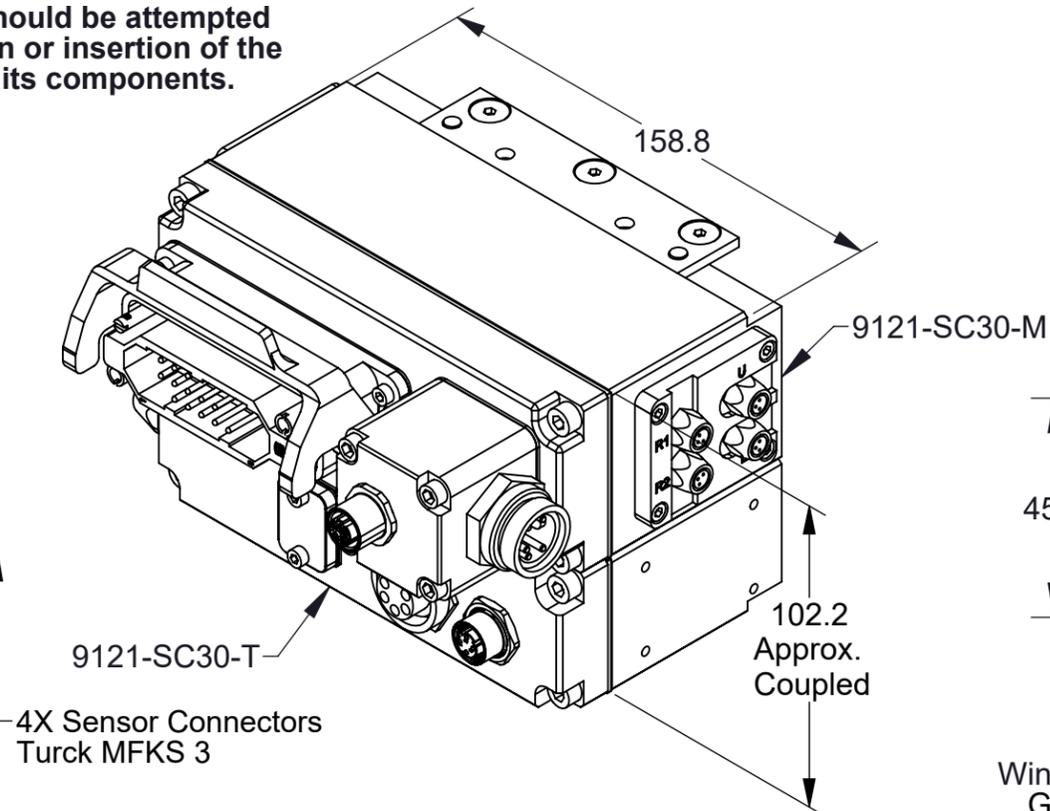
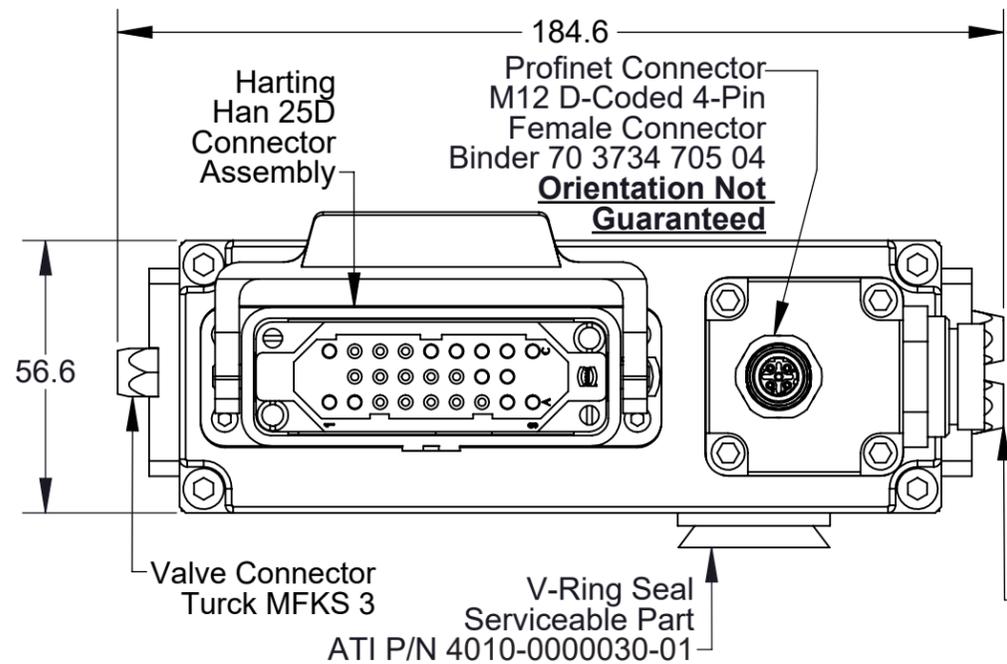


"DANGER!" - Electrical Shock Hazard

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.

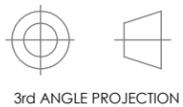
Rev.	Description	Initiator	Date
09	ECO 20126; Replaced 3700-20-5621 with 3700-20-11570 Tool ID window.	TJM	12/20/2021



- Notes:
1. Connector details and pin assignment information on Sheets 2 & 3.
 2. Electrical schematic and functional notes on Sheet 4.

NOTES: UNLESS OTHERWISE SPECIFIED.

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CHECKED BY: A. Takla, 10/21/16		SC30 Master, SC30 Tool Modules Customer Drawing	
F. Alonso, 11/3/16		SCALE	REVISION
PROJECT # 160912-1	SHEET 1 OF 4	1:2	09
		SIZE	DRAWING NUMBER
		B	9630-20-SC30M SC30T

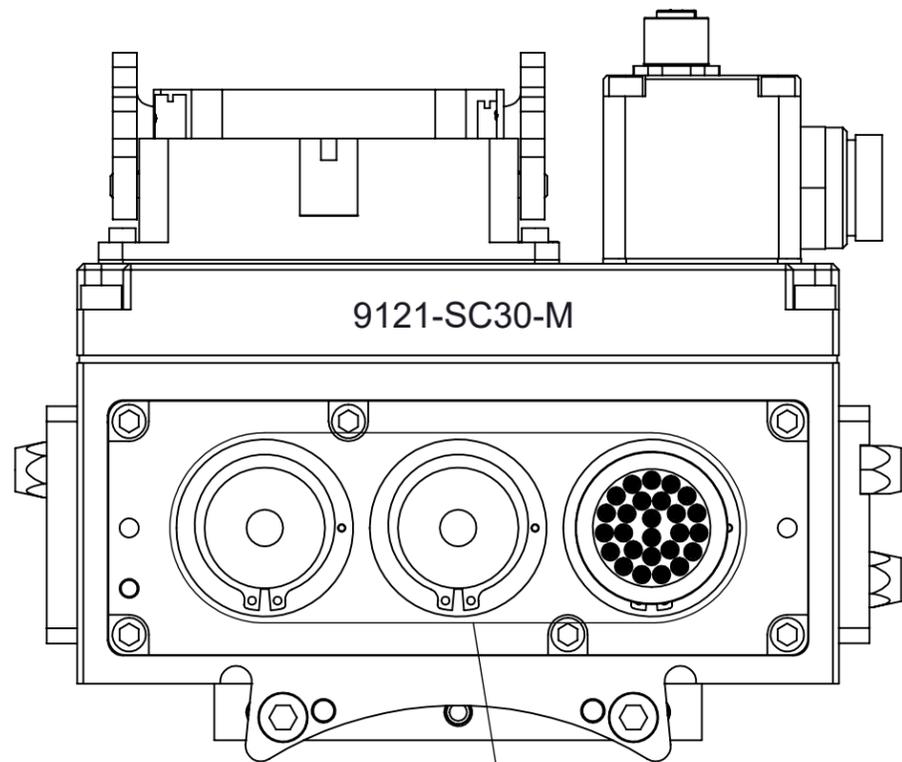
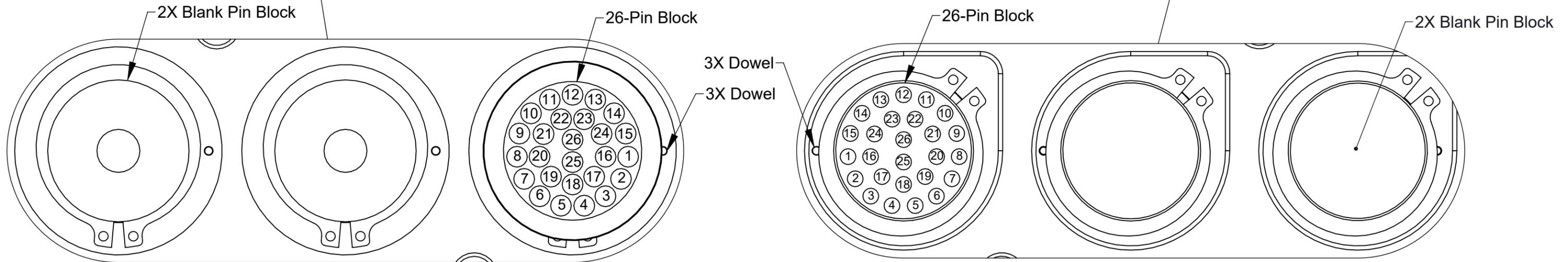
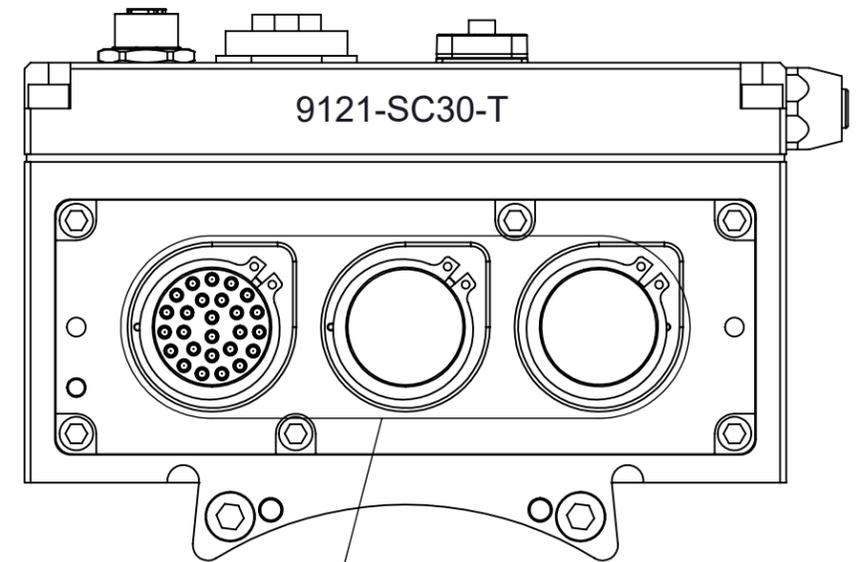


Table 1: 26-Pin Block	
1	N/C
2	24V Unswitched
3	US1+
4	Tool ID1
5	Tool ID2
6	Tool ID4
7	N/C
8	N/C
9	N/C
10	TX+ (1)
11	TX+ (2)
12	TSI In
13	Rx+ (2)
14	Rx+ (1)
15	Rx- (1)
16	N/C
17	US2+
18	Tool ID8
19	US1-
20	US2-
21	Tx- (1)
22	Tx- (2)
23	Enet Shield
24	Rx- (2)
25	FE (1)
26	FE (2)



DETAIL A
SCALE 3:2

DETAIL B
SCALE 3:2

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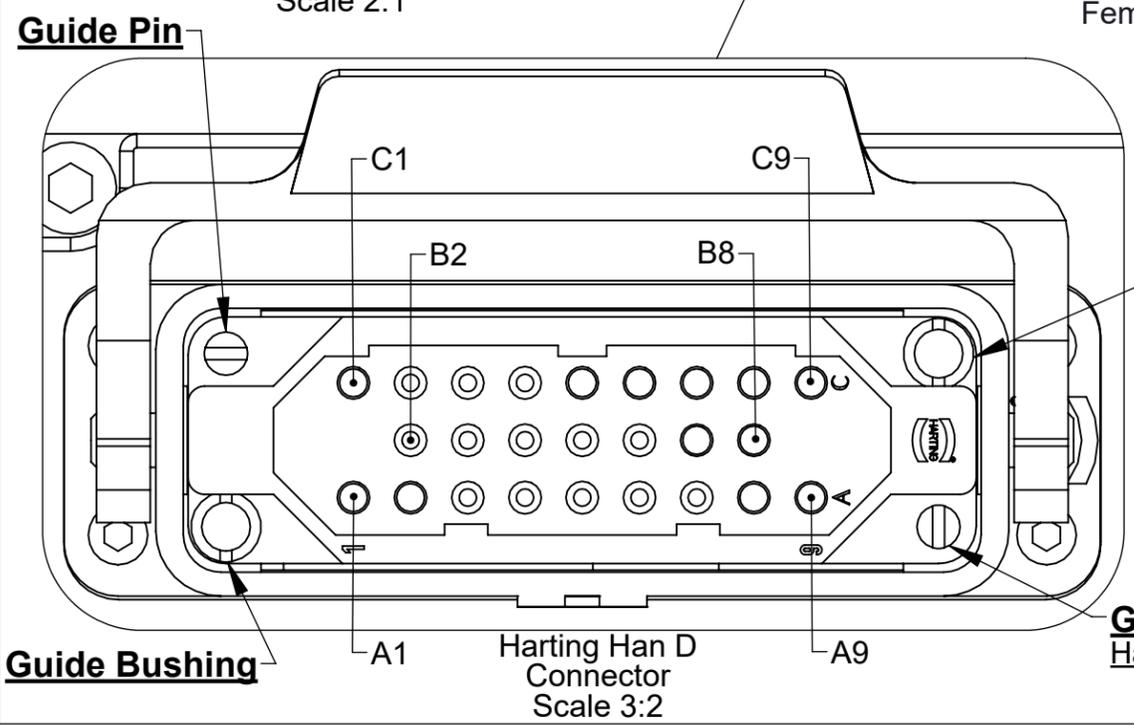
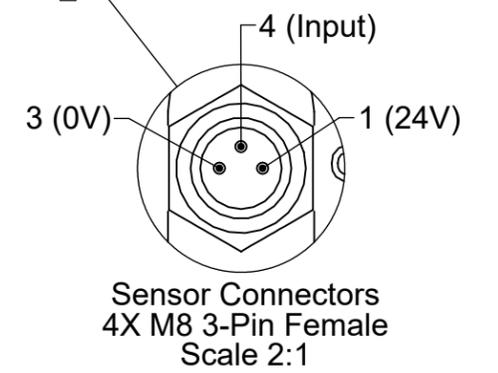
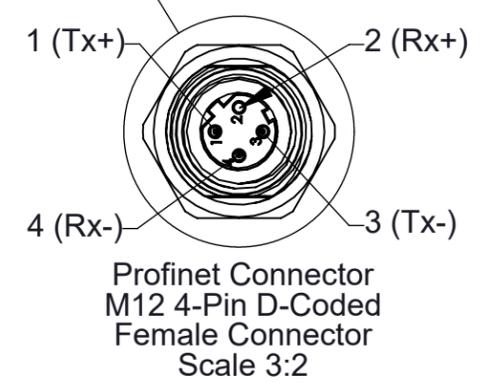
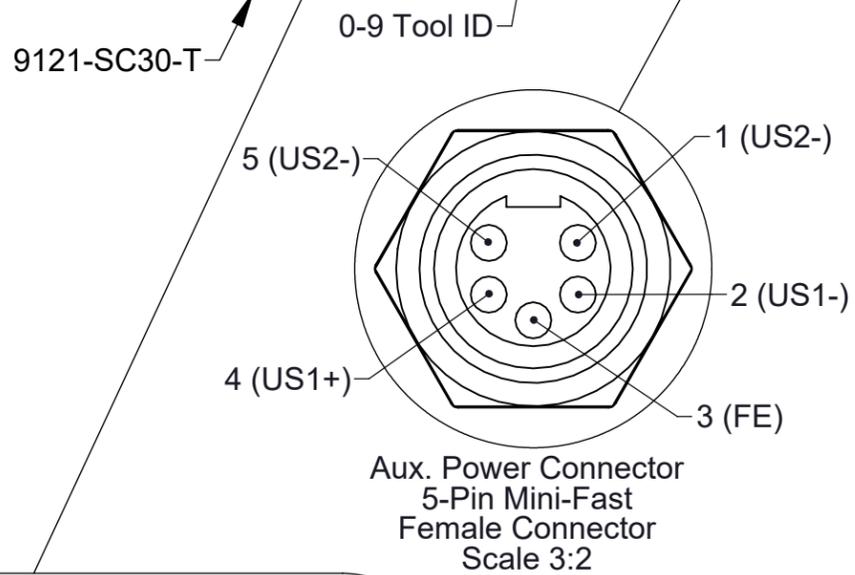
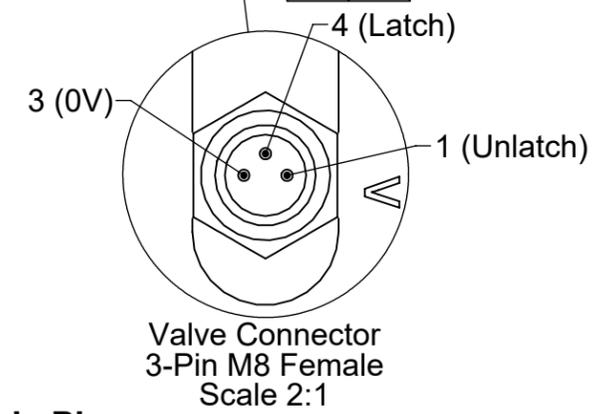
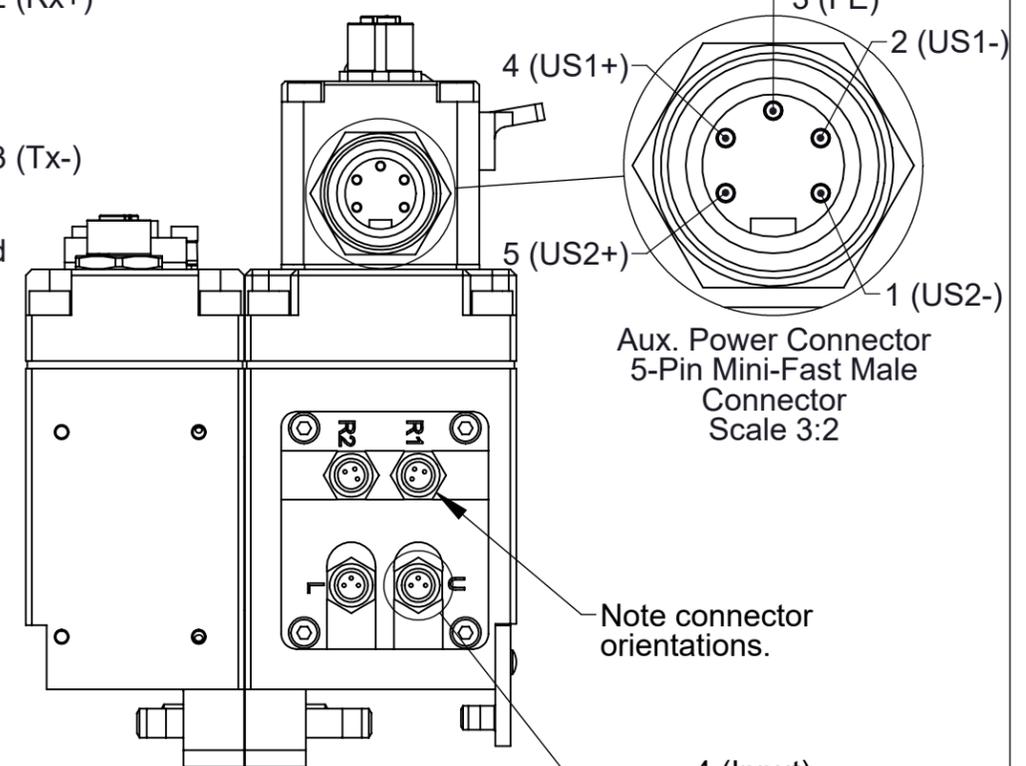
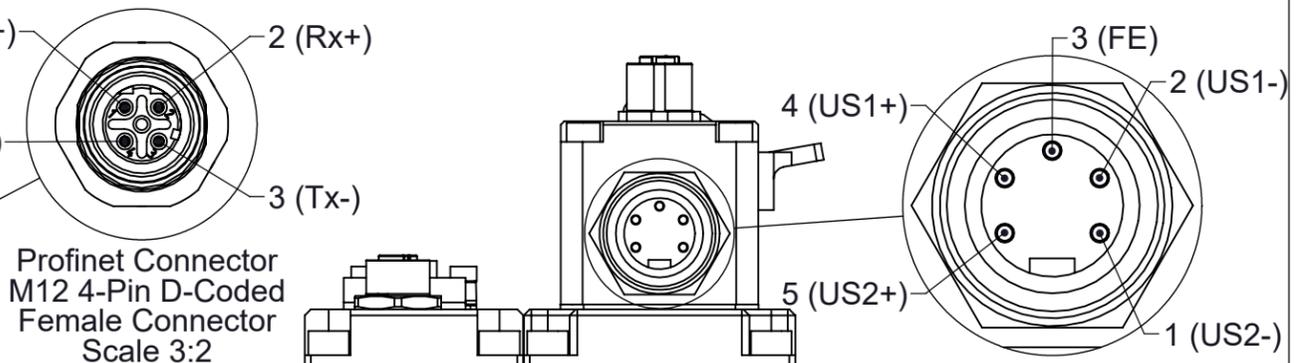
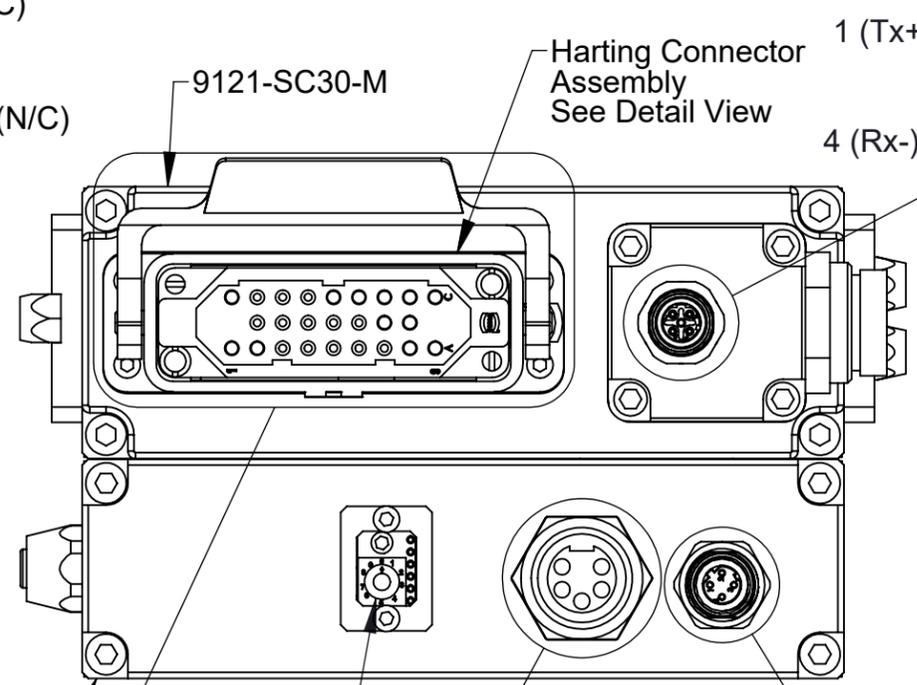
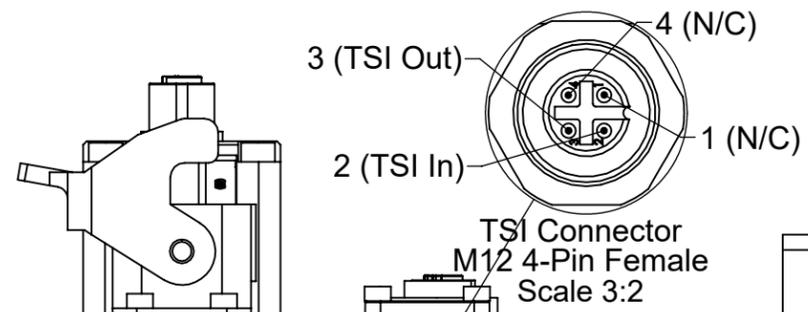
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PROJECT # 160912-1	SHEET 2 OF 4	1:2	B
		DRAWING NUMBER	REVISION
		9630-20-SC30M SC30T	09

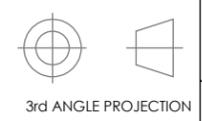


Guide Bushing
Harting 09330009909

Guide Pin
Harting 09330009908

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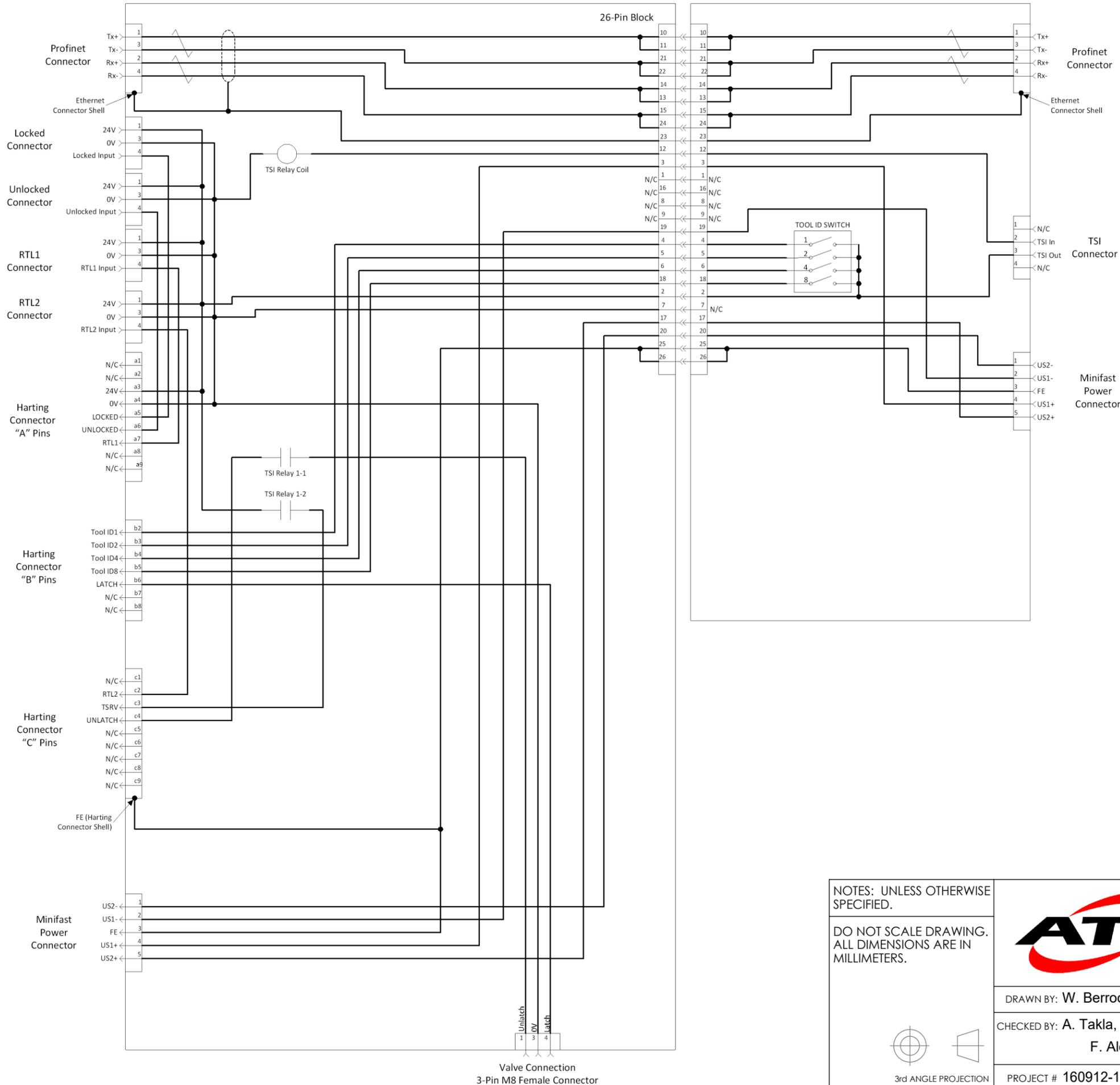
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PROJECT # 160912-1	SHEET 3 OF 4	1:5	09
		SIZE	DRAWING NUMBER
		B	9630-20-SC30M SC30T

9121-SC30-M

9121-SC30-T



Schematic Notes:

1. The Profinet signal pairs are twisted and shielded on the Master and only twisted in the Tool.
2. **IMPORTANT:** Power for the L, U, RTL1, and RTL2 sensors and for the Lock/Unlock solenoid in the Valve Adapter are provided by 24V from the SC30 Master Module. It is recommended that sensor power and ground be unswitched.
3. Mating cables for Harting, Ethernet, and Minifast connectors are supplied by the customer.
4. The Tool Stand Interlock (TSI) circuit is provided to **ONLY** allow tool release while in the stand or storage location as indicated by actuation of a customer-integrated switch. It is suggested that the customer integrate a single pole, single throw (Normally Open, 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.
5. **IMPORTANT: The SC30 Control Module is only compatible with double-solenoid control valves.**
6. In the event that a Tool Changer equipped with the SC30 Control Module is locked without a Tool, the only way to unlock the Tool Changer is to press the manual override button located on the control valve.
7. Refer to Table 2 for the Tool ID output. Use Pin a3 of the Harting connector (Master Side) as common.

Table 2: Tool ID Output

Switch Position	Harting Connector (Master)			
	b5	b4	b3	b2
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

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