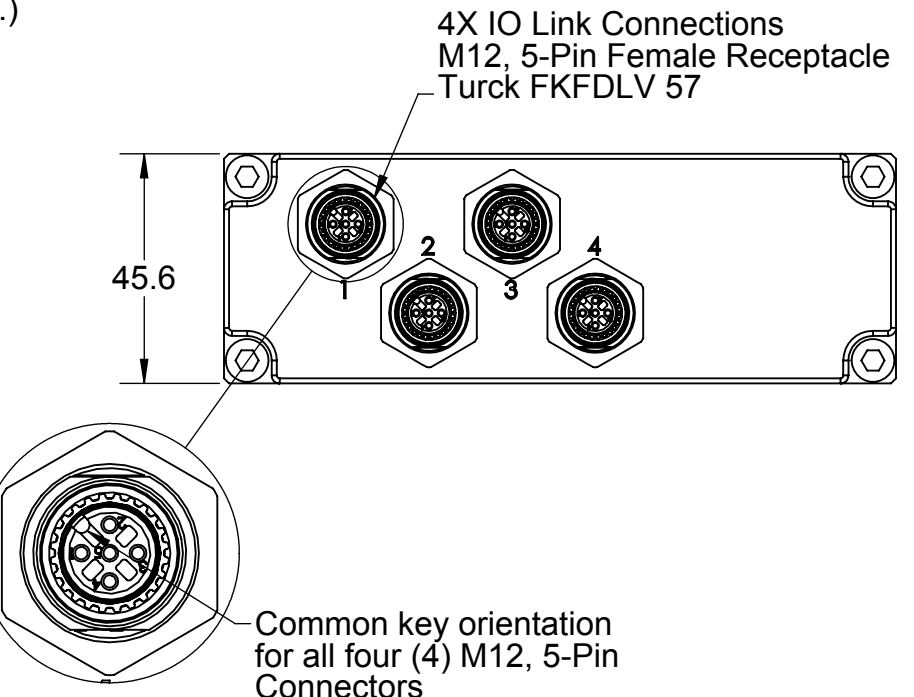
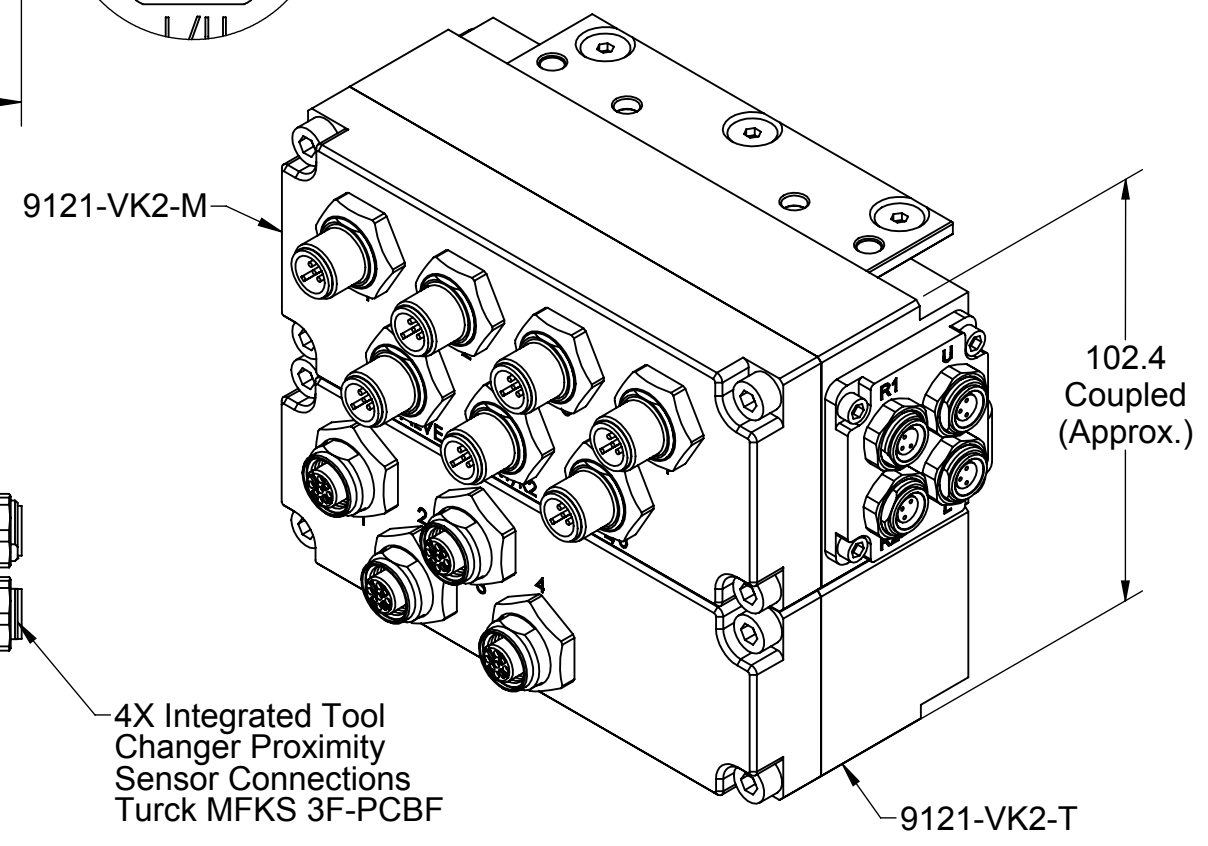
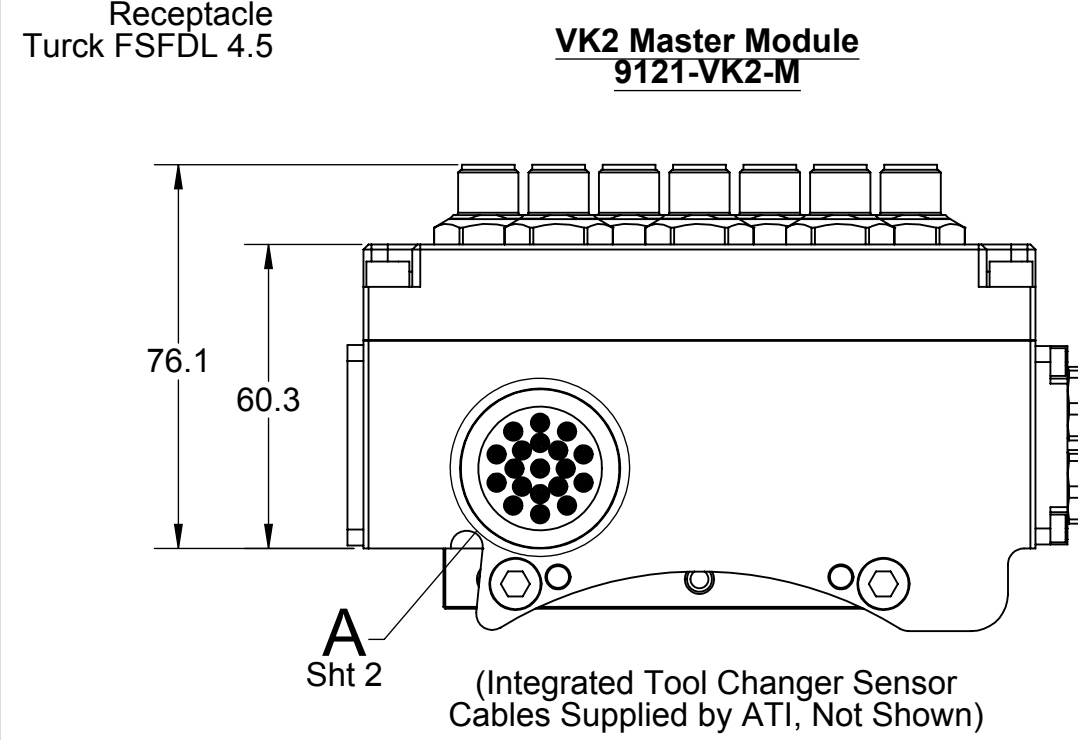
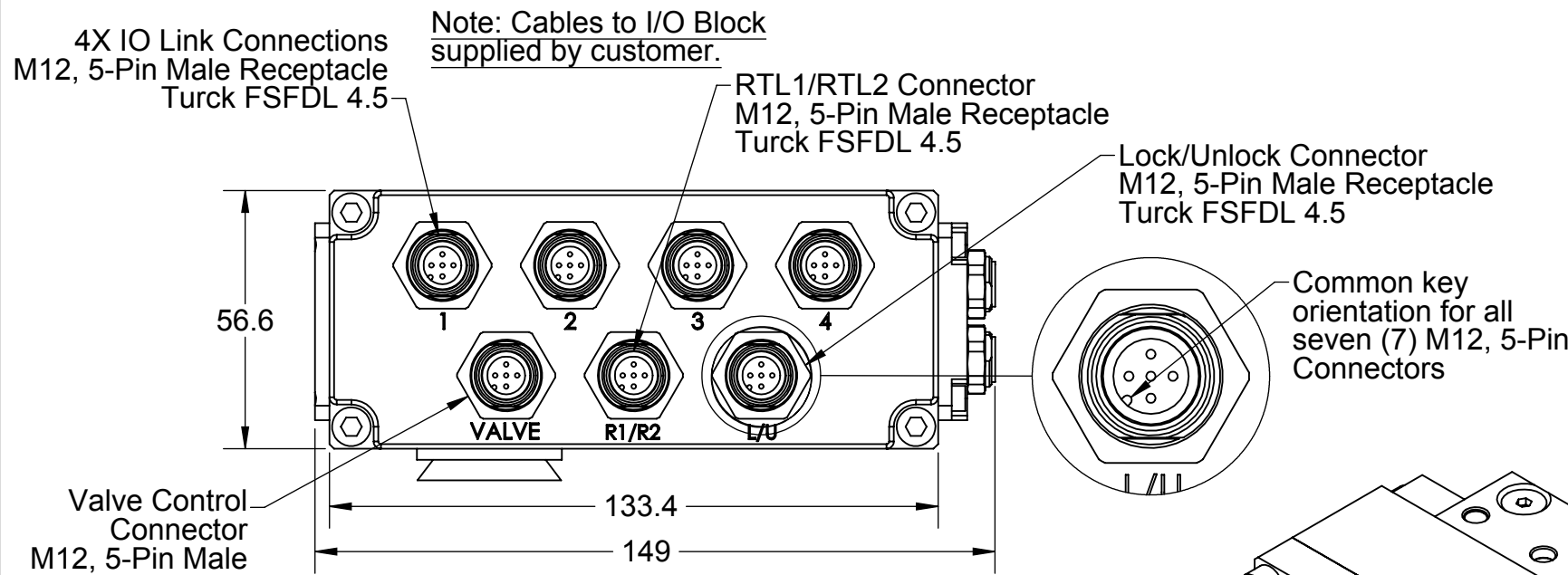
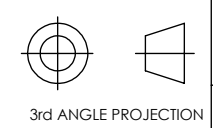


Rev.	Description	Initiator	Date
03P	Connected Pin 2 of the IO-Link Connectors.	WB	3/7/2013
04	Release.	WB	4/23/2013
05	Eco 10780; Detail B - Changed Pin Label 15 to 17.	CF	5/20/2013



- Notes:
1. Pin block signal assignments shown on Sheet 2.
 2. Connector pin designs shown on Sheet 3.
 3. Electrical schematic of VK2 Master and Tool shown on Sheet 4.

NOTES: UNLESS OTHERWISE SPECIFIED.
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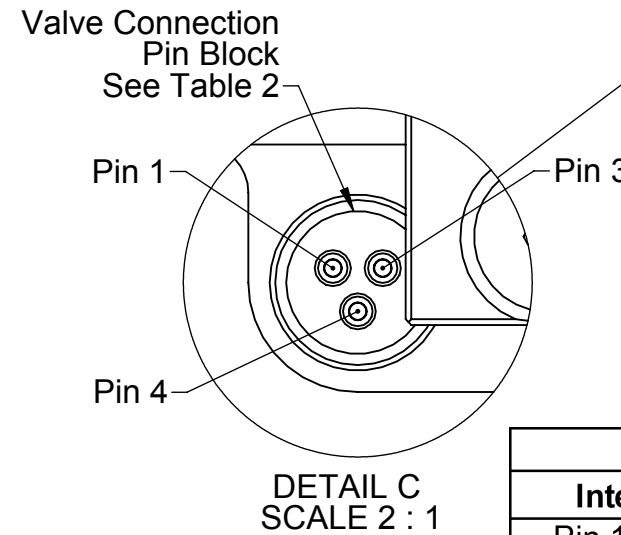
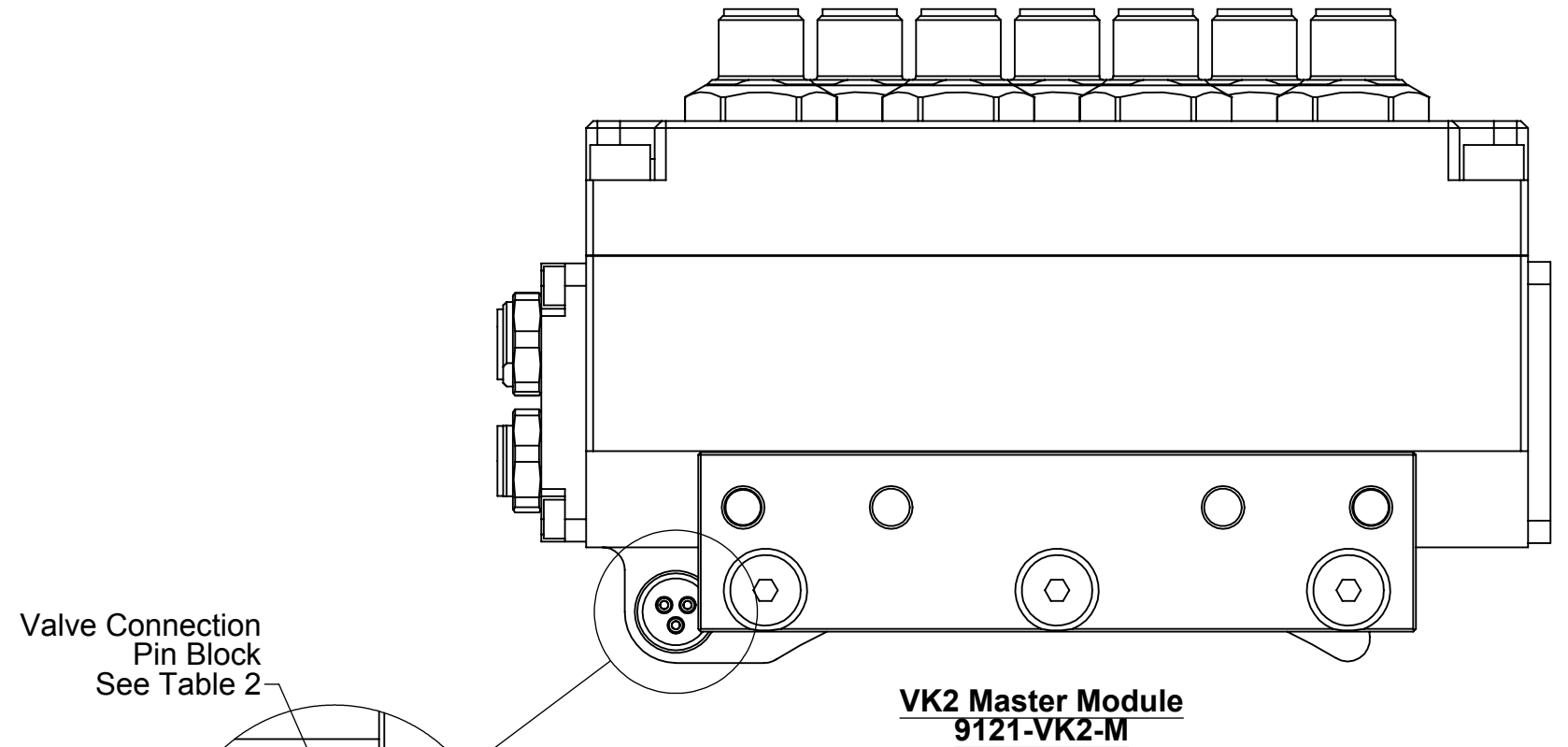
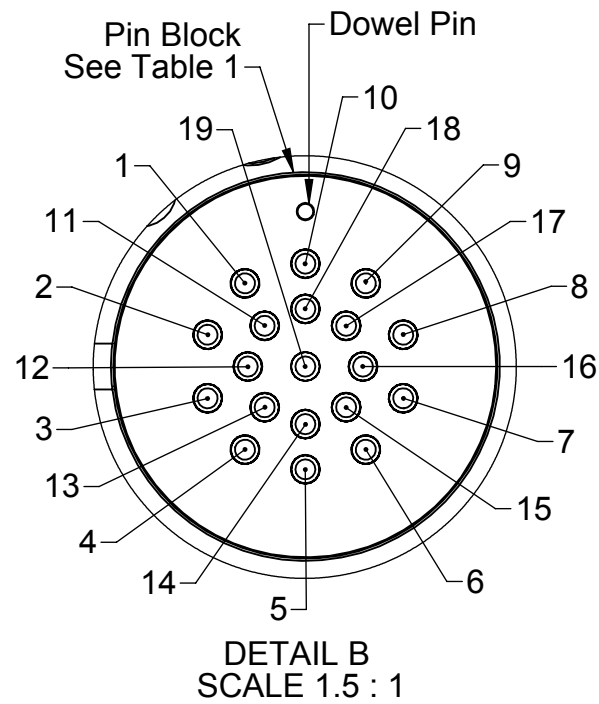
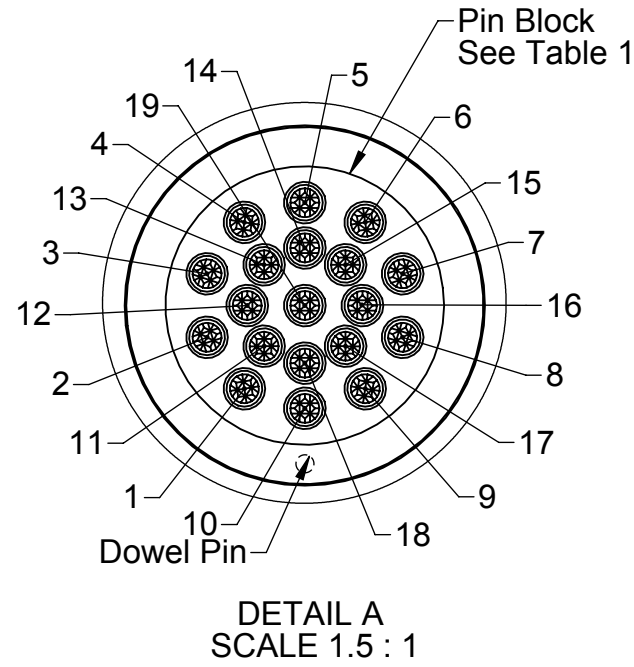
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CHECKED BY: A. Strotzer, 3/1/13		VK2 Customer Drawing	
PROJECT #	130131-2	SHEET	1 OF 4
SCALE	1:2	SIZE	B
DRAWING NUMBER	9630-20-VK2	REVISION	05

Rev.	Description	Initiator	Date
-	See Sheet1	-	-

Pin	Description
1	Input, IO-Link Connector 1
2	IO-Link, IO-Link Connector 1
3	24V, IO-Link Connector 1
4	24V, IO-Link Connector 2
5	N/C
6	0V, IO-Link Connector 2
7	0V, IO-Link Connector 1
8	IO-Link, IO-Link Connector 4
9	Input, IO-Link Connector 4
10	Input, IO-Link Connector 2
11	IO-Link, IO-Link Connector 2
12	24V, IO-Link Connector 4
13	24V, IO-Link Connector 3
14	N/C
15	0V, IO-Link Connector 3
16	0V, IO-Link Connector 4
17	IO-Link, IO-Link Connector 3
18	Input, IO-Link Connector 3
19	FE



Internal Valve Connection		
Pin 1	V+	Unlock Output
Pin 3	V-	Common
Pin 4	V+	Lock Output

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3rd ANGLE PROJECTION



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PROJECT #	130131-2	SHEET	OF 4
SCALE	1:2	SIZE	B
DRAWING NUMBER	9630-20-VK2	REVISION	05

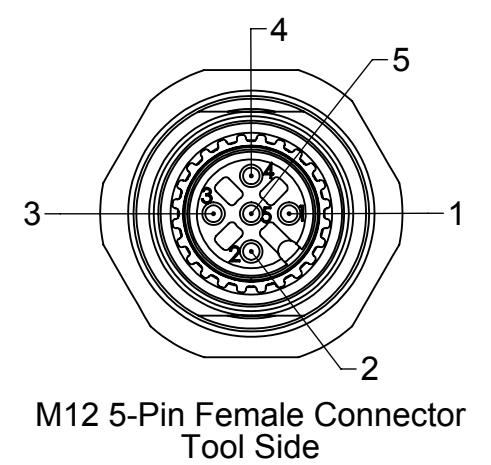
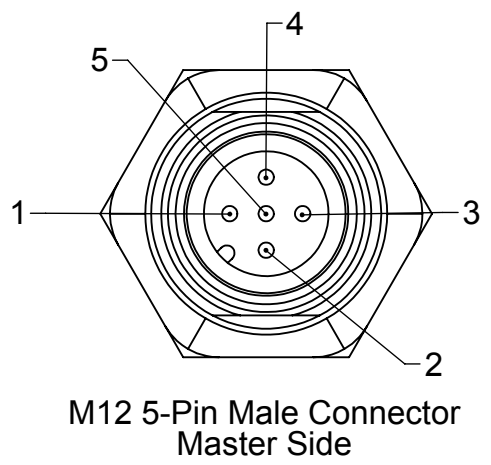
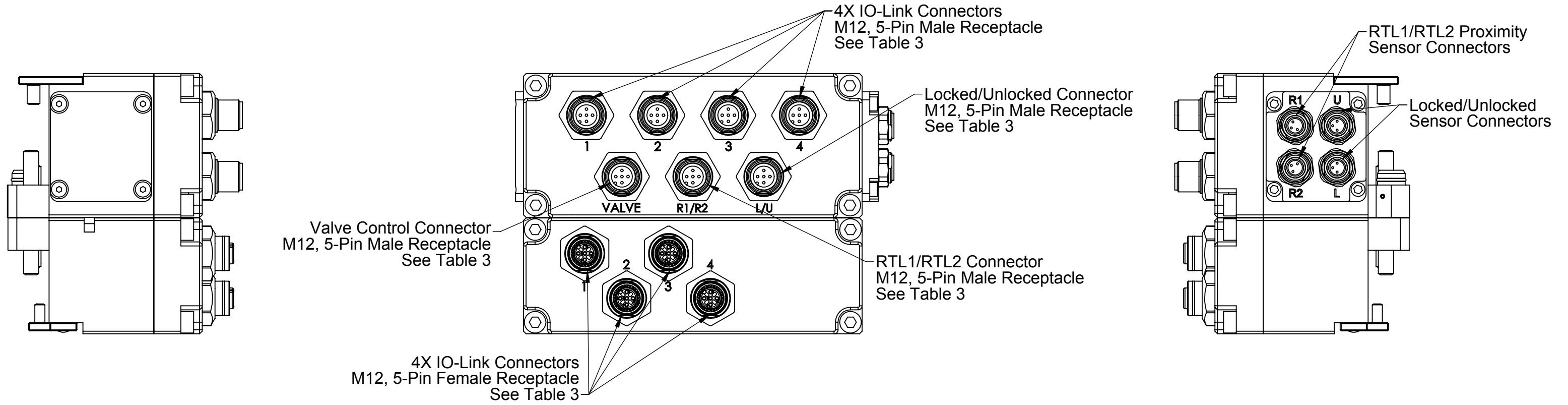


Table 3: Pin Assignment, M12 5-Pin Receptacles

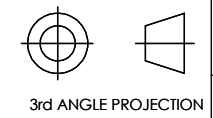
VALVE Connector		R1/R2 Connector		L/U Connector		IO-Link	
1	N/C	1	24V	1	24V	1	24V
2	Unlatch (24V, Switched)	2	RTL1	2	Locked	2	Input
3	0V	3	0V	3	0V	3	0V
4	Latch (24V, Switched)	4	RTL2	4	Unlocked	4	IO-Link
5	FE	5	FE	5	FE	5	FE

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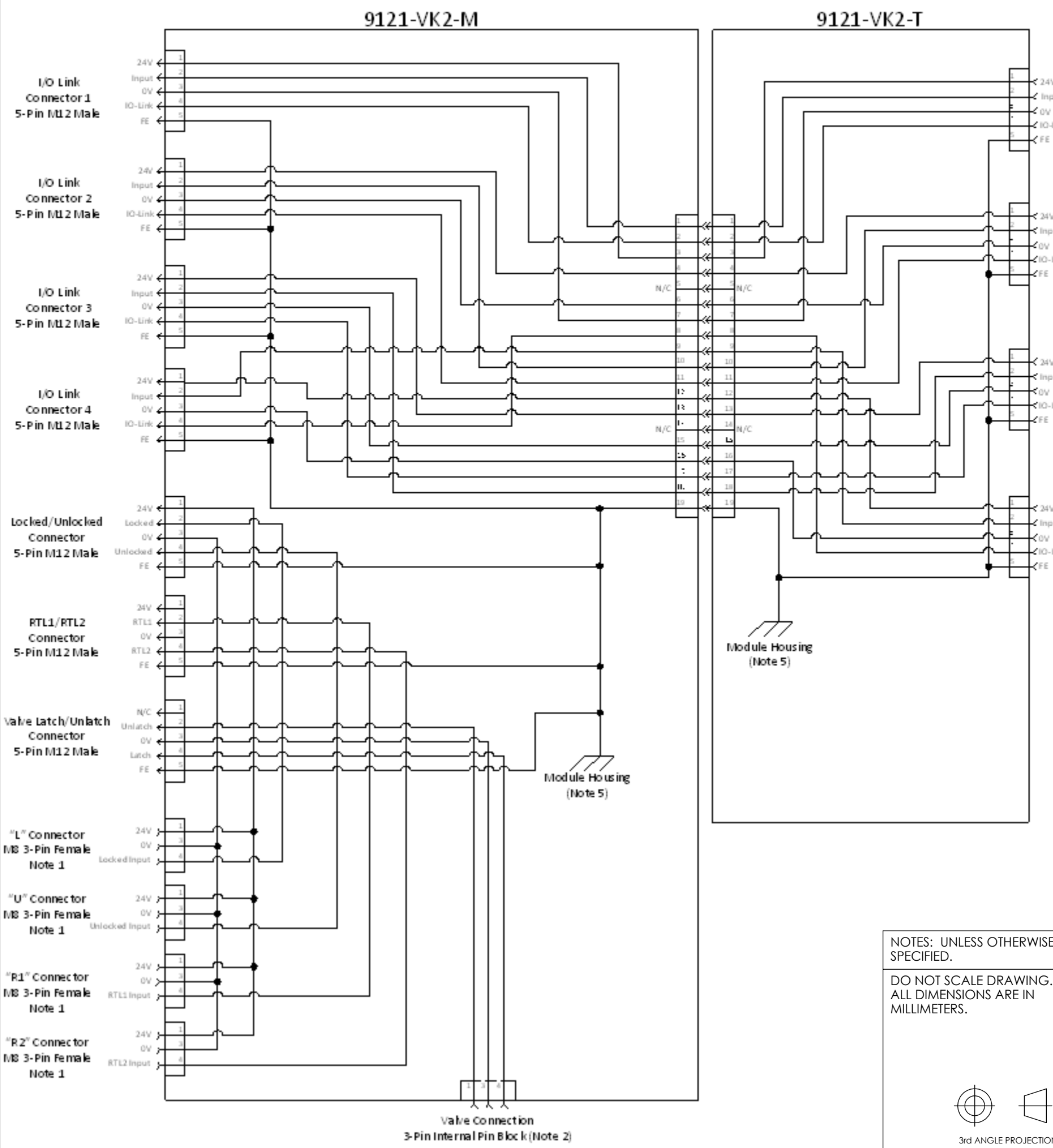
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PROJECT # 130131-2	SHEET 3 OF 4	SCALE 1:2	SIZE B
		DRAWING NUMBER 9630-20-VK2	REVISION 05

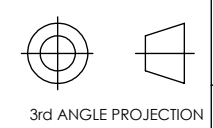
Rev.	Description	Initiator	Date
-	See Sheet1	-	-



Schematic Notes:

1. The complete tool changer package comes equipped with external cables that are connected to the sensors.
2. An internal pin block is used to transmit the Latch/Unlatch signal to the valve adapter.
3. Cables for IO-Link and Tool Changer I/O are supplied by the customer.
4. The voltage supplied to the valve must be between 19 and 29 V. The voltage supplied to the Locked, Unlocked, and RTL sensors must be between 10 and 30 V.
5. The FE connections are tied to the Master and Tool module housings.

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CHECKED BY: A. Stotzer, 3/1/13		SCALE 1:1	SIZE B
PROJECT # 130131-2	SHEET 4 OF 4	DRAWING NUMBER 9630-20-VK2	REVISION 05