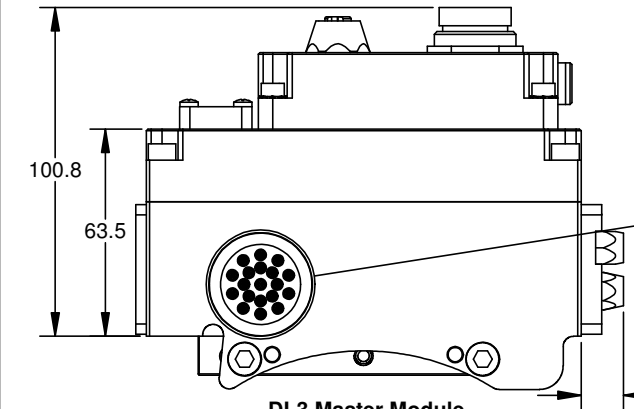
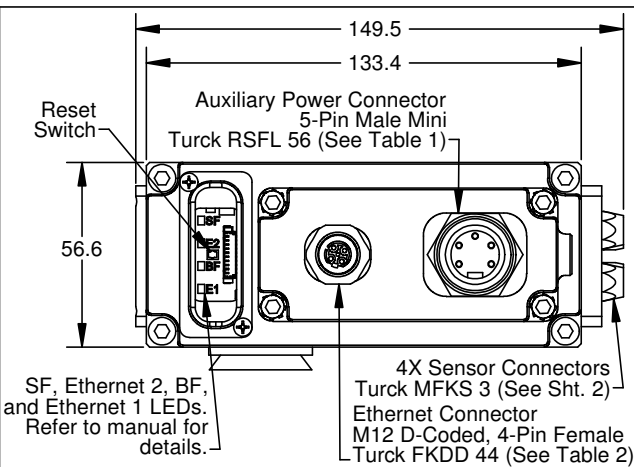
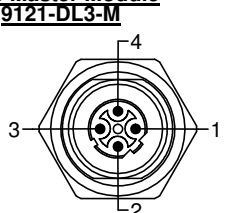
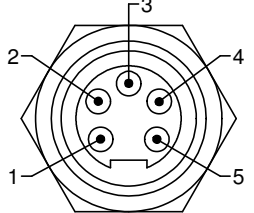


Auxiliary Power Connector (Master Side)
Scale 2:1



EtherNet Connector (Master and Tool Sides)
Scale 3:2

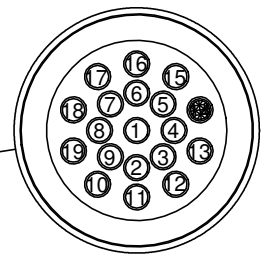
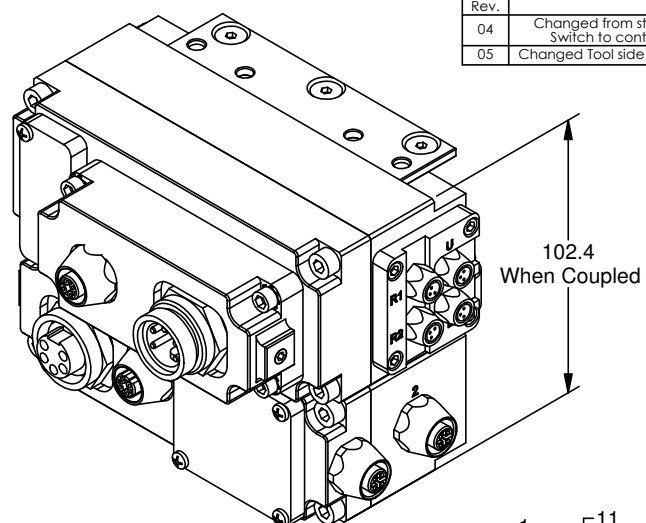


Auxiliary Power Connector (Tool Side)
Scale 3:2

Table 1	
1	US2 GND (Switched)
2	US1 GND (Unswitched)
3	FE
4	US1 (Unswitched)
5	US2 (Switched)

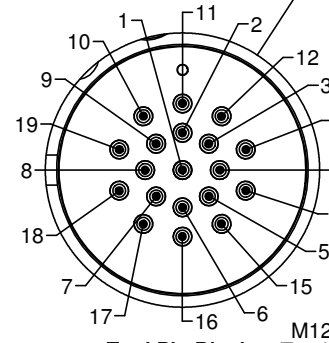
Table 2		
	Master	Tool
1	Tx+	Rx+
2	Rx+	Tx+
3	Tx-	Rx-
4	Rx-	Tx-

Table 3	
1	US2 GND (Switched)
2	US1 GND (Unswitched)
3	FE
4	US1 (Unswitched)
5	US2 (Switched)



Master Pin Block (See Table 4)

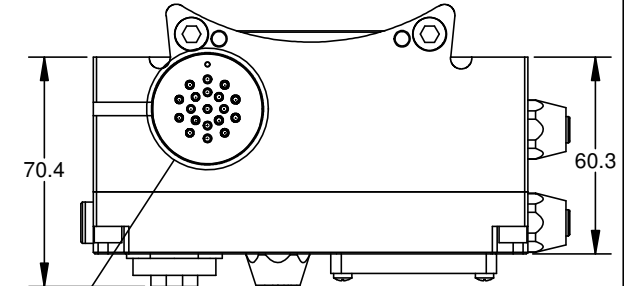
Table 4	
1	Tool Present
2	TSIV2
3	RX-
4	US2-
5	US1-
6	TX-
7	24V_TH
8	AP_US1+
9	AP_US2+
10	TSI Out
11	TSRV1
12	RX+
13	TSI In
14	FE
15	RS485+
16	RS485-
17	TX+
18	TSRV2
19	TSIV1



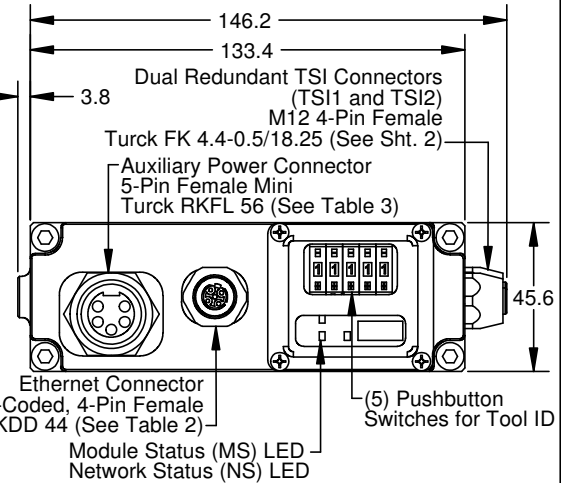
Tool Pin Block (See Table 4)

- Notes:
- The modules are shown at sheet scale. All connector face views are shown at a 3:2 scale, except as noted.
 - Serviceable parts for the DL3 are shown on Sheet 3. The electrical schematic is shown on Sheet 4.
 - The Auxiliary Power and Ethernet connectors are oriented as shown on the Modules.
 - Valve adapters integrated with the DL3 Master module must be single solenoid. Double solenoid valves are not supported.

Rev.	Description	Initiator	Date
04	Changed from standard 5A spring pin to high current 15A spring pin to pass FE. Added Reset Switch to control board. Added FE Ground Terminal threaded holes to Master and Tool.	WB	3/3/2011
05	Changed Tool side Ethernet connector pinout back to Pin 1 - Tx+, Pin 2 - Rx+, Pin 3 - Tx-, Pin 4 - Rx-.	WB	4/5/2011

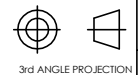


DL3 Tool Module
9121-DL3-T



NOTES: UNLESS OTHERWISE SPECIFIED.

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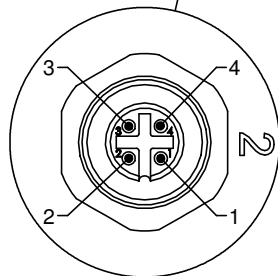
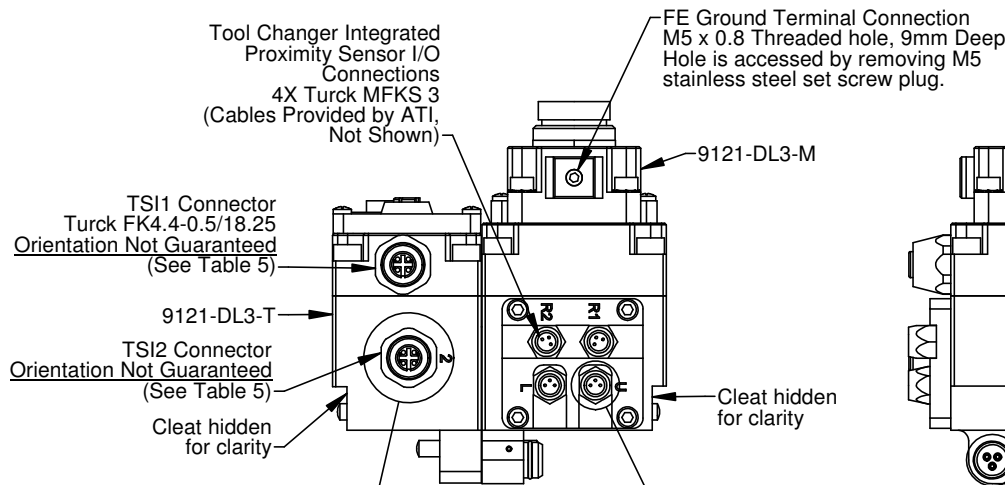


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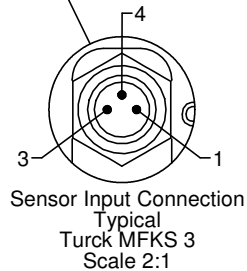
DRAWN BY: W. Berrocal, 7/19/10		TITLE	
CHECKED BY: M. Coyle, 7/23/10 A. Strotzer, 7/23/10		DL3 Dual Redundant Profinet Module	
PROJECT # 100712-3	SHEET 1 OF 4	SCALE 2:3	SIZE B
		DRAWING NUMBER 9630-20-DL3	REVISION 05

Rev.	Description	Initiator	Date
-	See Sheet 1	-	-



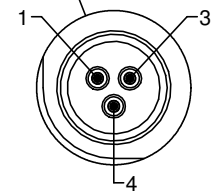
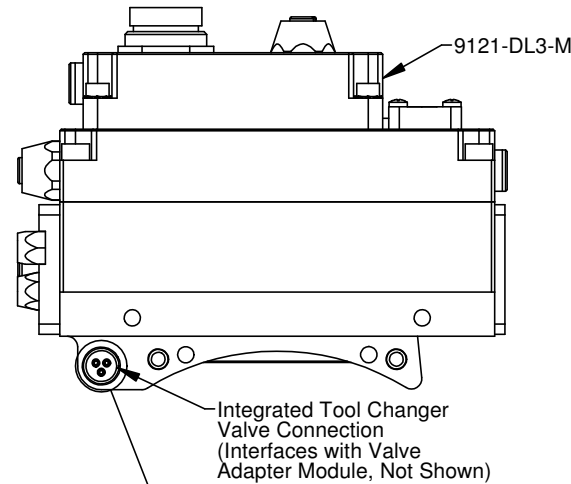
TSI Connectors (TSI1 and TSI2)
M12 4-Pin Female
Turck FK4.4-0.5/18.25
Scale 2:1

Table 5	
1	24V_TH
2	24V_TH
3	TSI Relay Control
4	TSIV Input



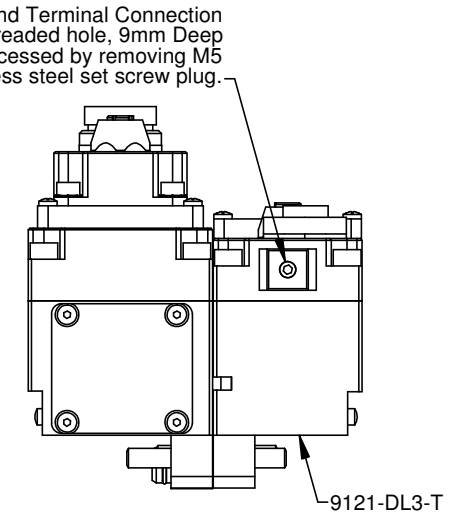
Sensor Input Connection
Typical
Turck MFKS 3
Scale 2:1

Table 6	
1	V+
3	V-
4	Input



Valve Signal Pin Block
Scale 2:1

Table 7	
1	V+ (Unlatch)
3	V- (Common)
4	V+ (Latch)



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3rd ANGLE PROJECTION



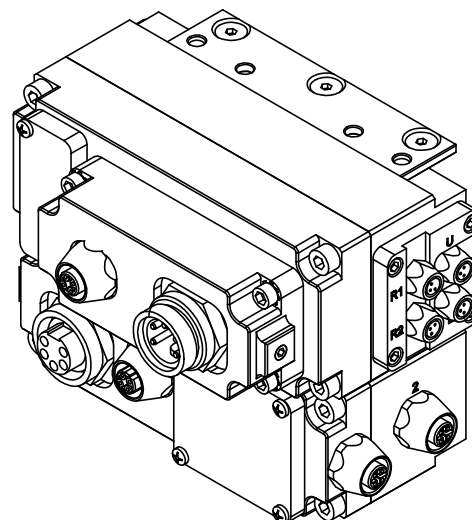
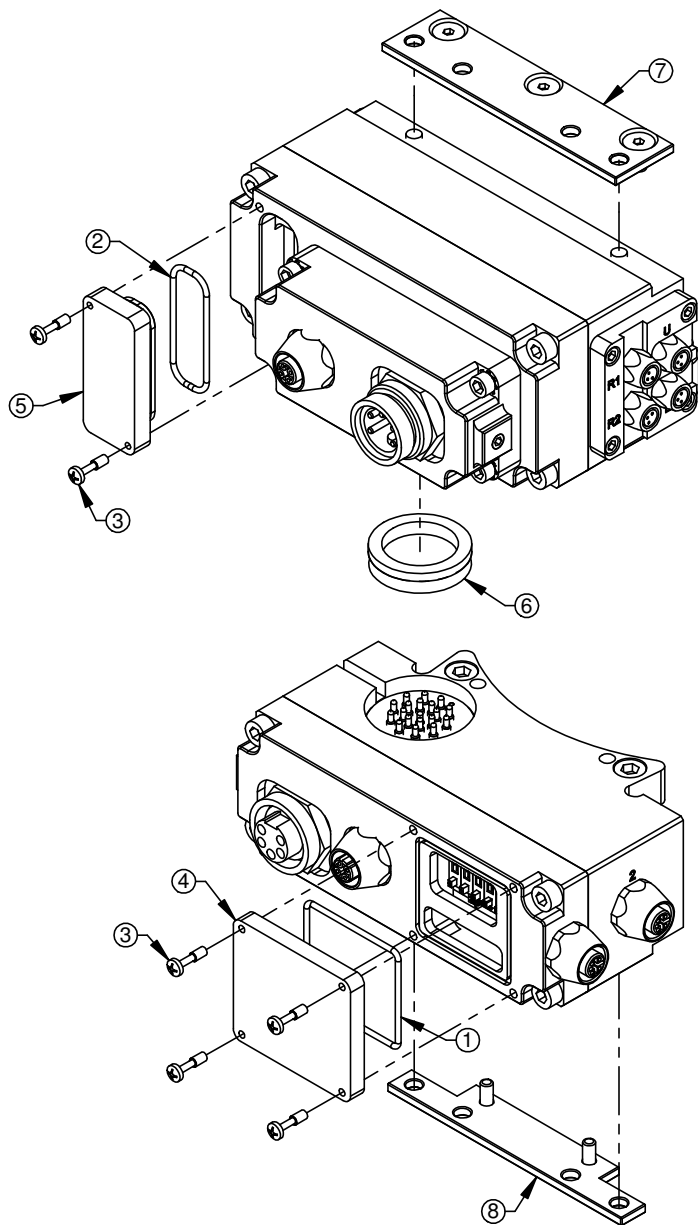
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DRAWN BY: W. Berrocal, 7/19/10	TITLE		
CHECKED BY: M. Coyle, 7/23/10 A. Strotzer, 7/23/10	DL3 Dual Redundant Profinet Module		
PROJECT # 100712-3 SHEET 2 OF 4	SCALE 1:1	SIZE B	DRAWING NUMBER 9630-20-DL3
			REVISION 05

DL3 Master and Tool Seviceable Parts

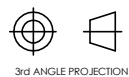
Rev.	Description	Initiator	Date
-	See Sheet1	-	-



ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
1	1	3410-0001021-01	O-ring, AS568-031
2	1	3410-0001201-01	O-ring, AS568-024
3	6	3500-9957012-21	Captive Screw M3 x 12 Slotted Head SS
4	1	3700-20-3058	Tool ID Window
5	1	3700-20-4820	Window, Master, DJ Module, Annular Seal
6	1	4010-0000030-01	V-Ring Seal
7	1	9005-20-1198	Master Cleat Assembly
8	1	9005-20-1199	Tool Cleat Assembly

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3rd ANGLE PROJECTION



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DRAWN BY: W. Berrocal, 7/19/10		TITLE DL3 Dual Redundant Profinet Module			
CHECKED BY: M. Coyle, 7/23/10 A. Strotzer, 7/23/10					
PROJECT # 100712-3 SHEET 3 OF 4		SCALE 2:3	SIZE B	DRAWING NUMBER 9630-20-DL3	REVISION 05

