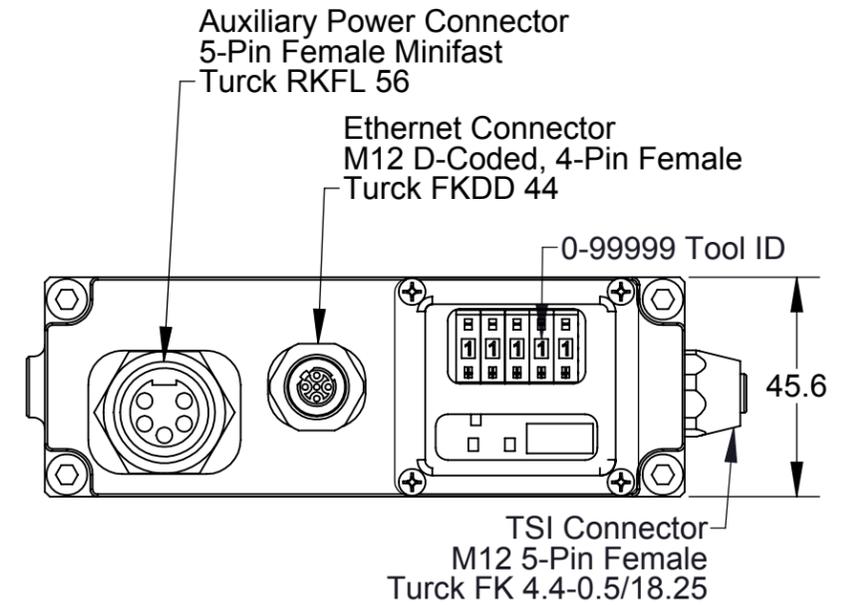
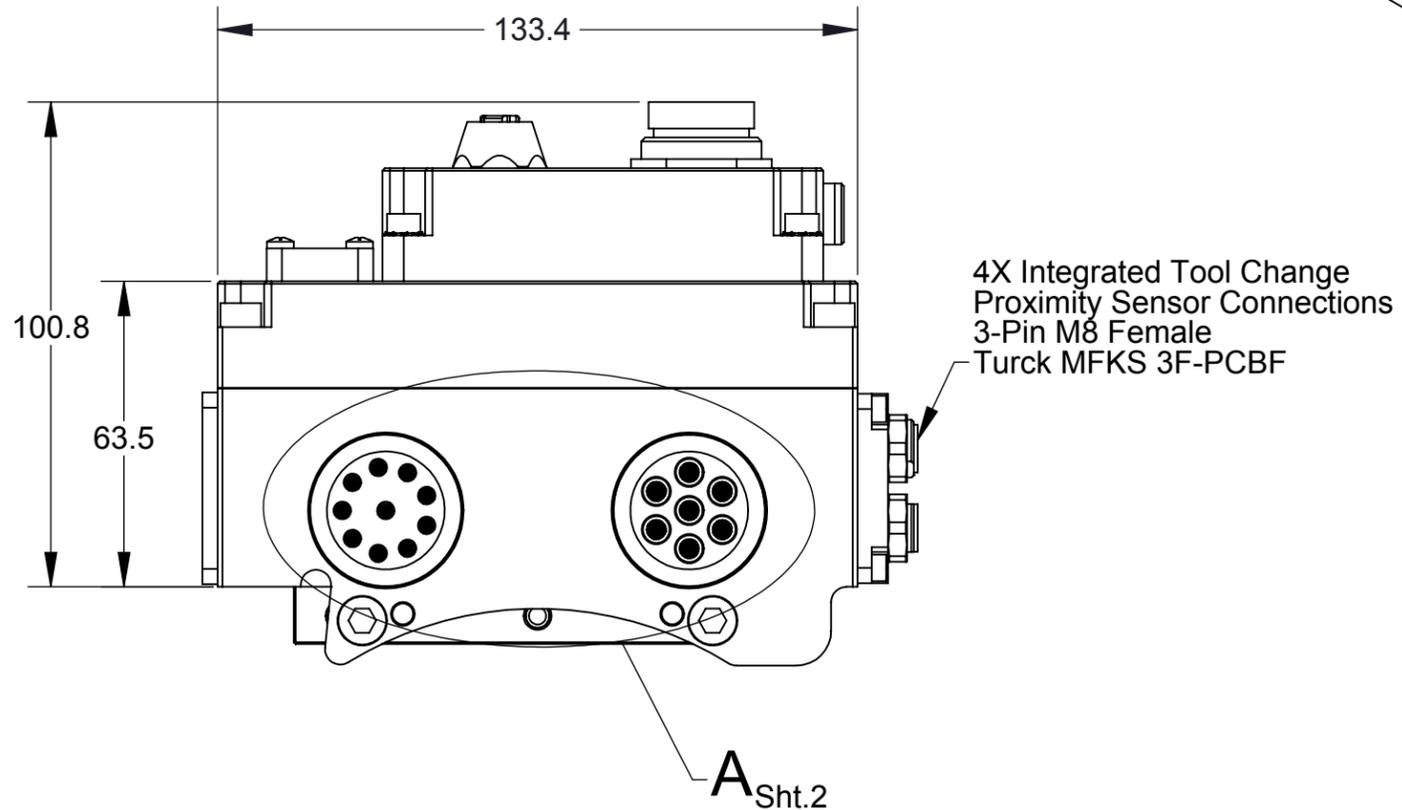
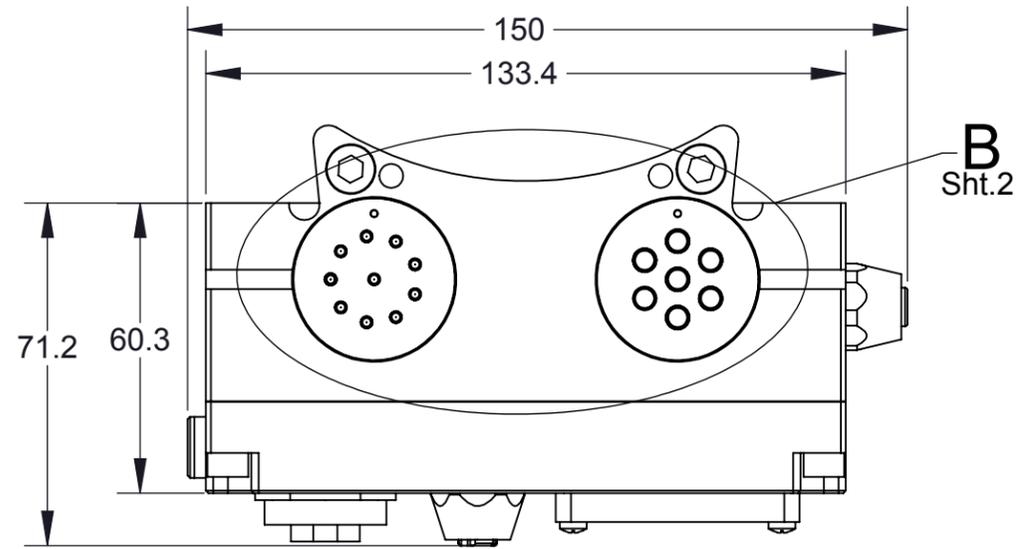
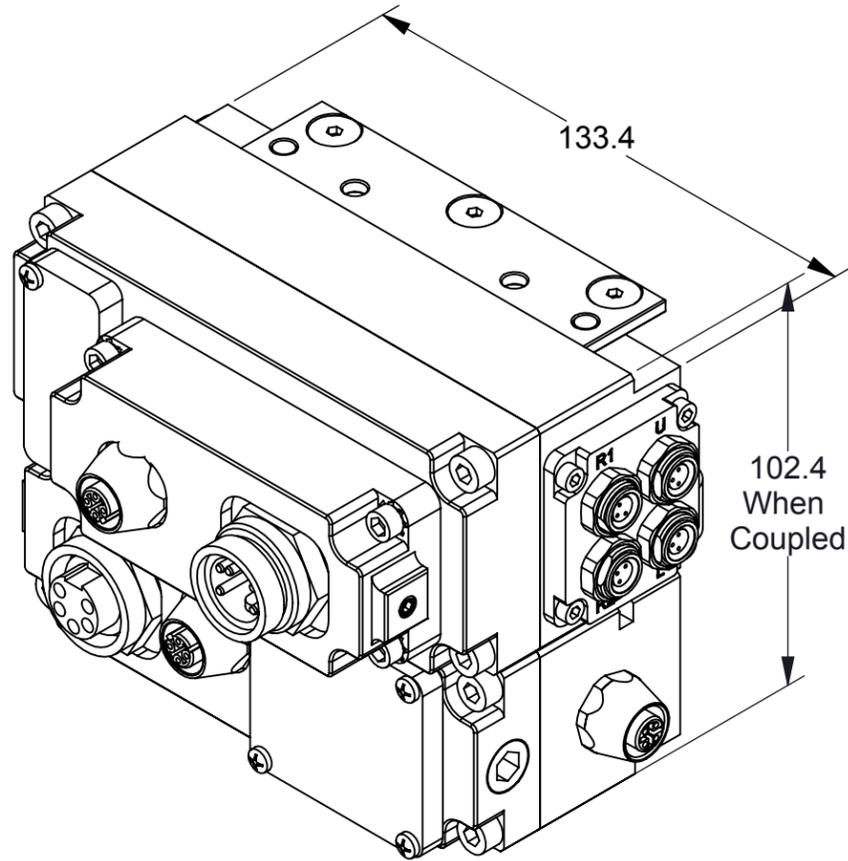
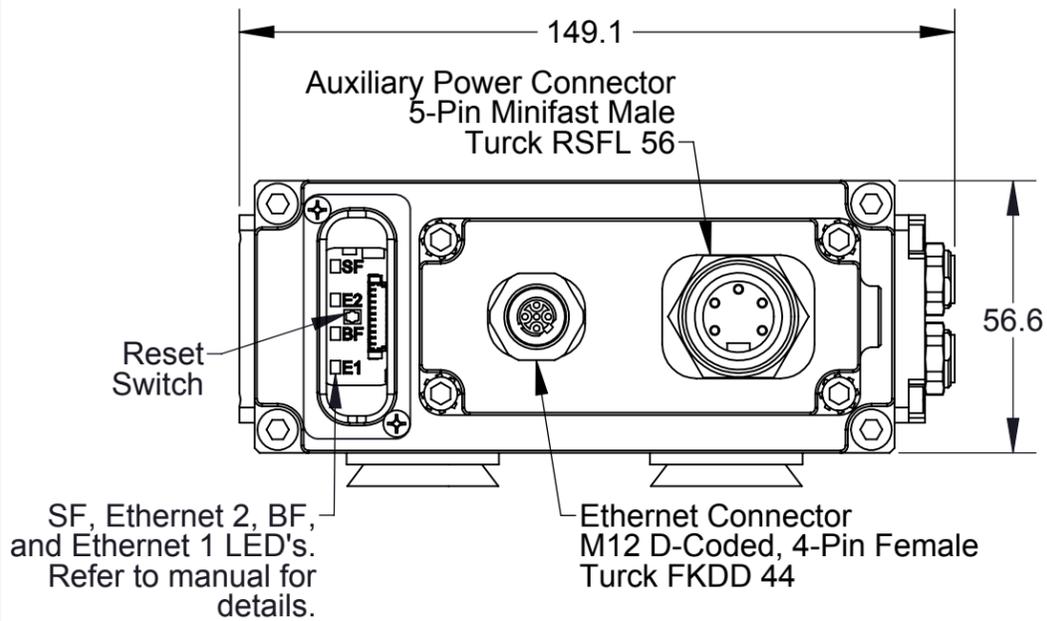


REV.	DESCRIPTION	INITIATOR	DATE
02	Initial Release	MN	3/23/2018

9121-DL10-M

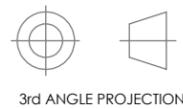


9121-DL15-T

- Notes:
1. Pin block signal assignments shown on Sheet 2.
 2. Connector pin designations shown on Sheet 3.
 3. Serviceable parts for the DL10 Master and DL15 Tool are shown on Sheet 4.
 4. Electrical schematic of DL10 Master and DL15 Tool shown on Sheet 5.
 5. The Auxiliary Power and Ethernet connectors are oriented as shown in the drawing.

NOTES: UNLESS OTHERWISE SPECIFIED.

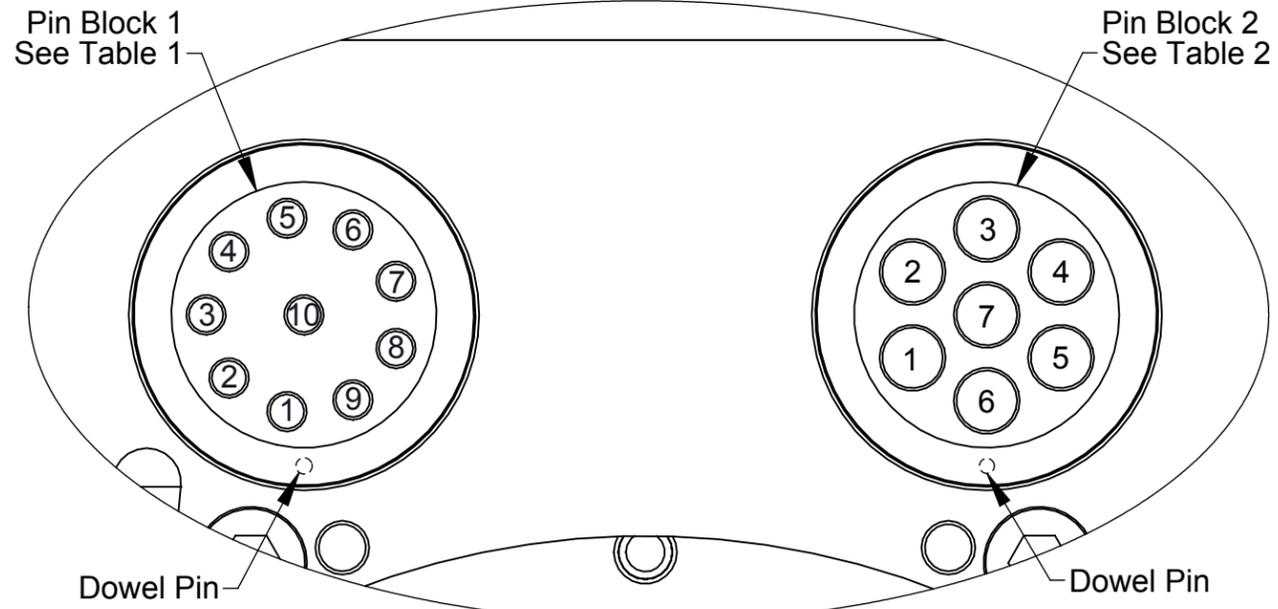
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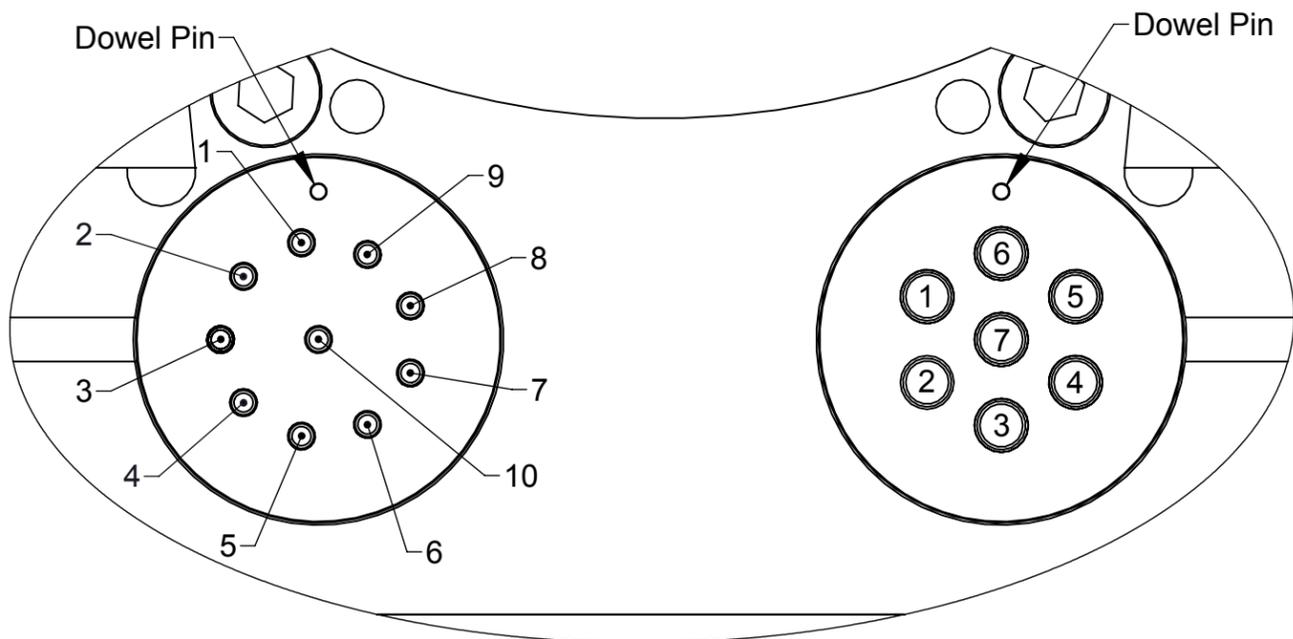
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SCALE	SIZE	DRAWING NUMBER	REVISION
1:2	B	9630-20-DL10M DL15T	02
PROJECT # 170905-2 SHEET 1 OF 6			



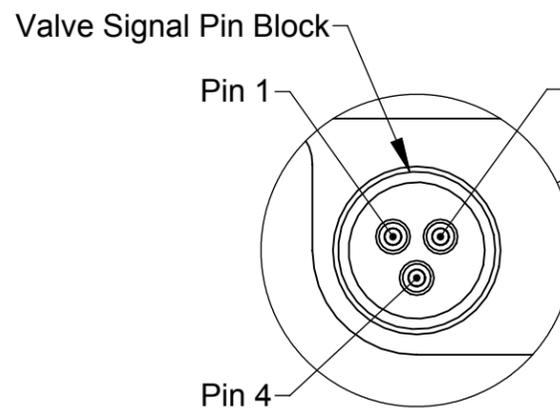
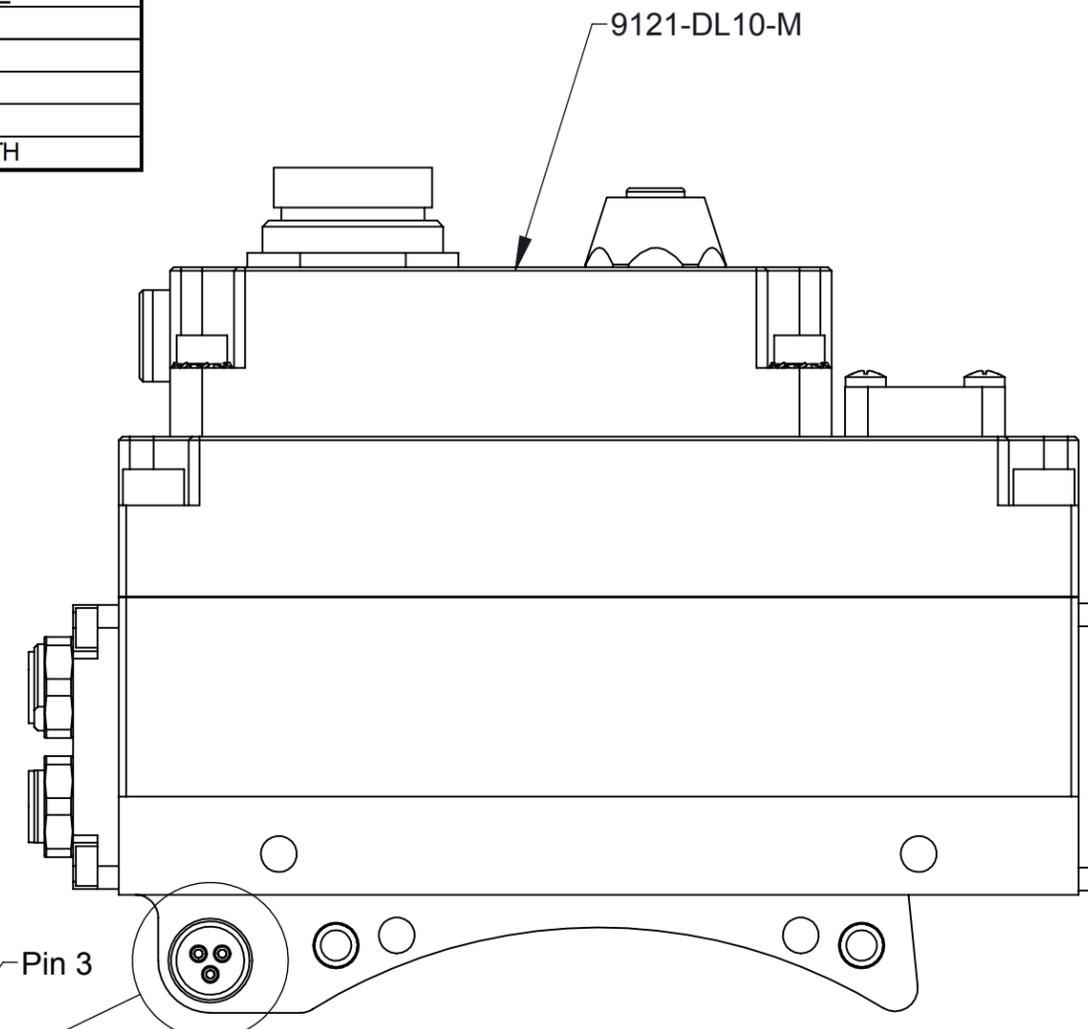
DETAIL A
SCALE 1.5 : 1



DETAIL B
SCALE 1.5 : 1

Table 1	
Pin Block 1	
1	RX1+
2	RX1-
3	RS485+
4	RS485-
5	TSI IN
6	TSRV
7	TX1+
8	TX1-
9	TSI OUT
10	TSIV

Table 2	
Pin Block 2	
1	US1+
2	TOOL_PRESENT
3	US1-
4	US2-
5	FE
6	US2+
7	24V_TH

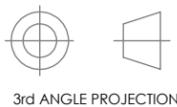


DETAIL C
SCALE 2 : 1

Table 3		
Internal Valve Connection		
Pin 1	V+	Unlatch Output
Pin 3	V-	Common
Pin 4	V+	Latch Output

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PROJECT #	170905-2	SHEET	OF 6
SCALE	1:2	SIZE	B
DRAWING NUMBER	9630-20-DL10M DL15T		REVISION
			02

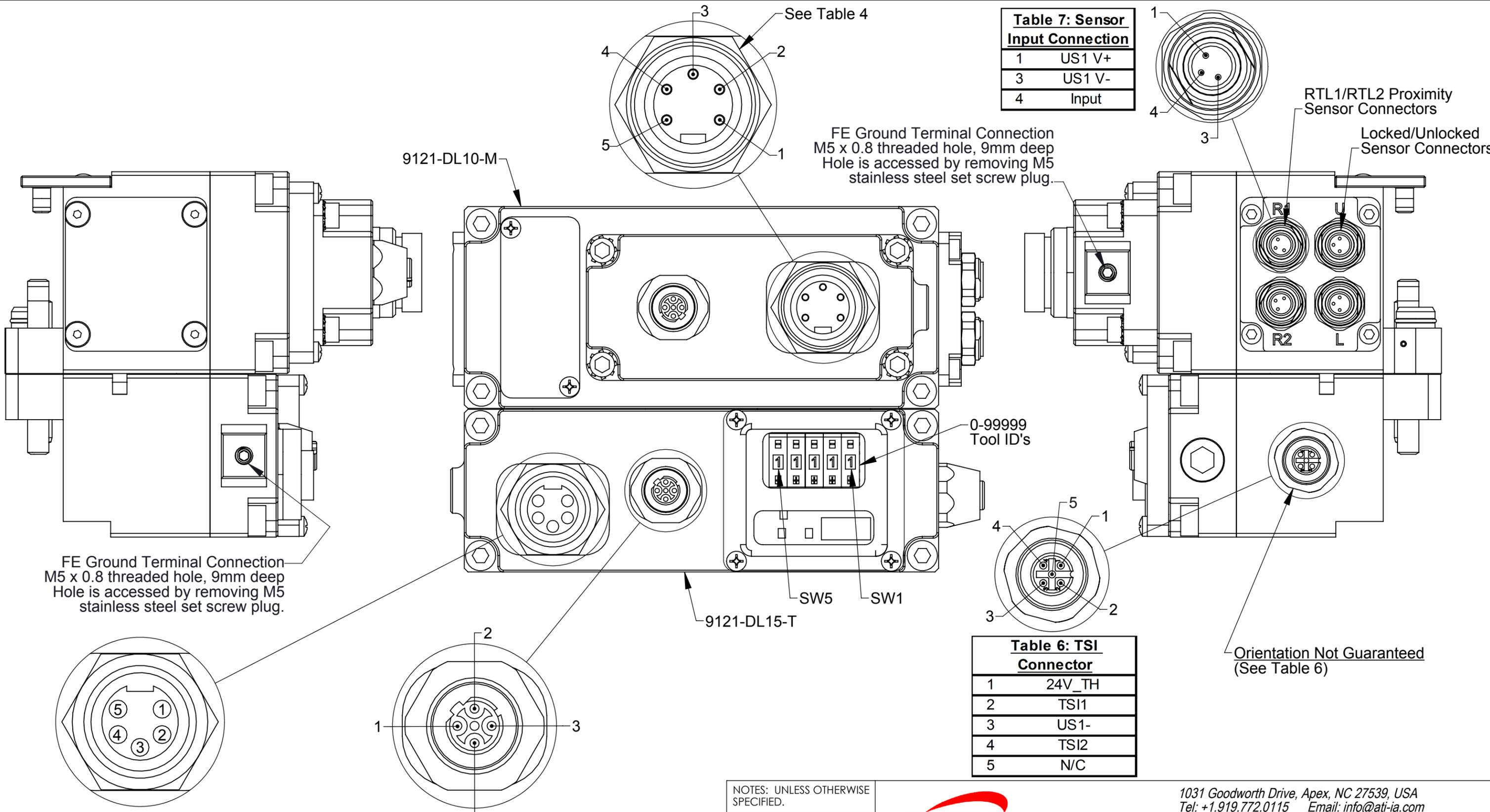
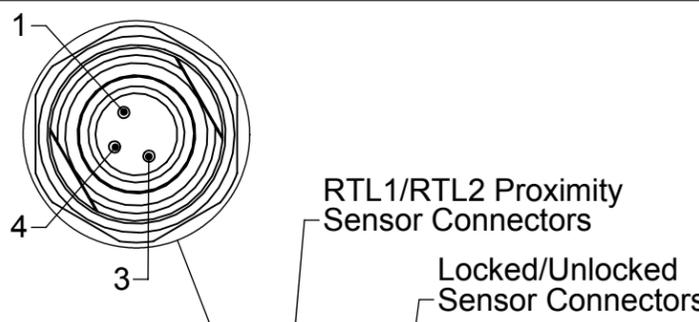


Table 7: Sensor Input Connection

1	US1 V+
3	US1 V-
4	Input



FE Ground Terminal Connection
M5 x 0.8 threaded hole, 9mm deep
Hole is accessed by removing M5 stainless steel set screw plug.

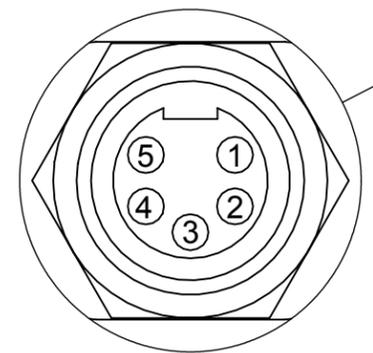


Table 4: Aux. Power Connector (Master and Tool)

1	US2- (Switched)
2	US1- (Unswitched)
3	FE
4	US1+ (Unswitched)
5	US2+ (Switched)

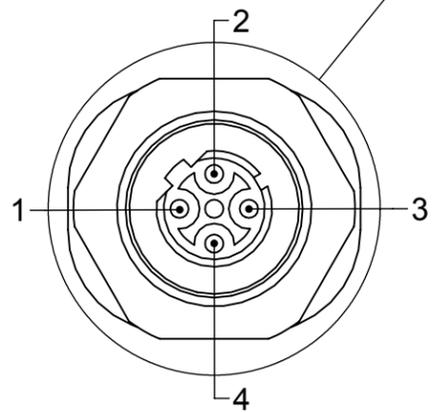


Table 5: Ethernet Connector

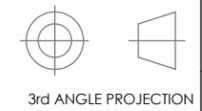
	Master	Tool
1	Tx+	Tx+
2	Rx+	Rx+
3	Tx-	Tx-
4	Rx-	Rx-

Table 6: TSI Connector

1	24V_TH
2	TSI1
3	US1-
4	TSI2
5	N/C

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		DRAWING NUMBER 9630-20-DL10M DL15T	REVISION 02

DL10 Master and DL15 Tool Serviceable Parts

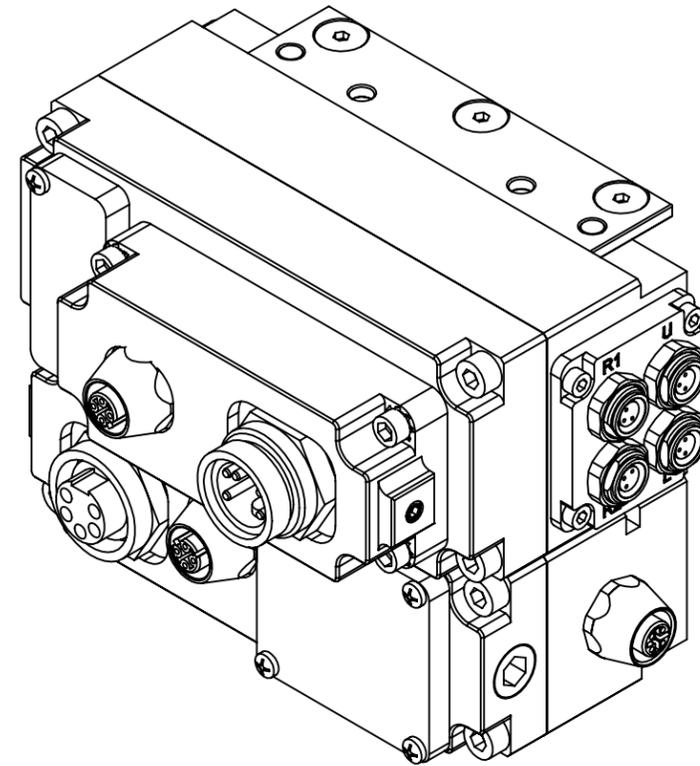
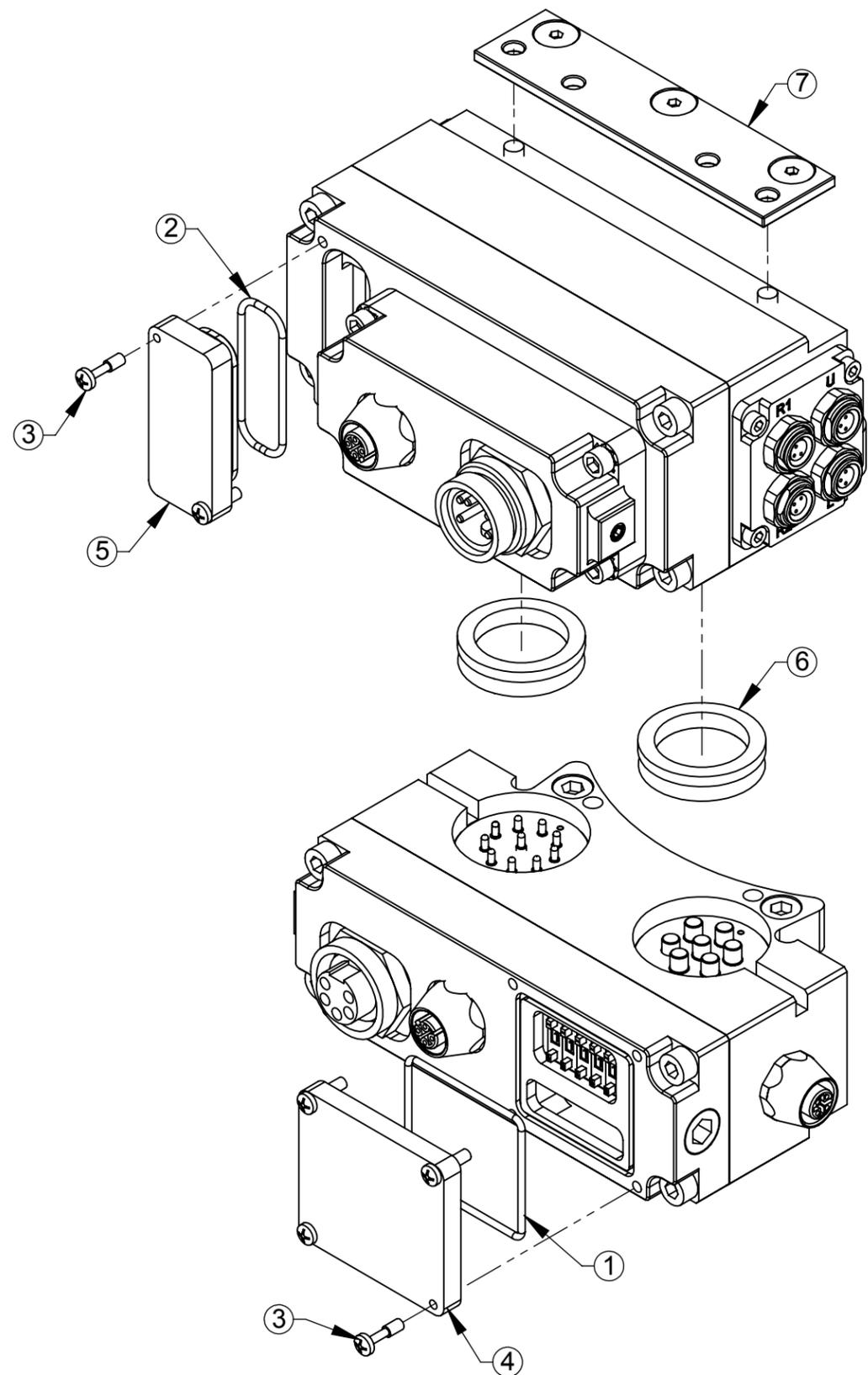
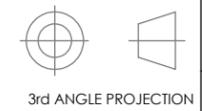


Table 8: DL10 Master and DL15 Tool Serviceable Parts

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	2	4010-0000030-01	V-Ring Seal
7	1	9005-20-1198	Master Cleat Assembly

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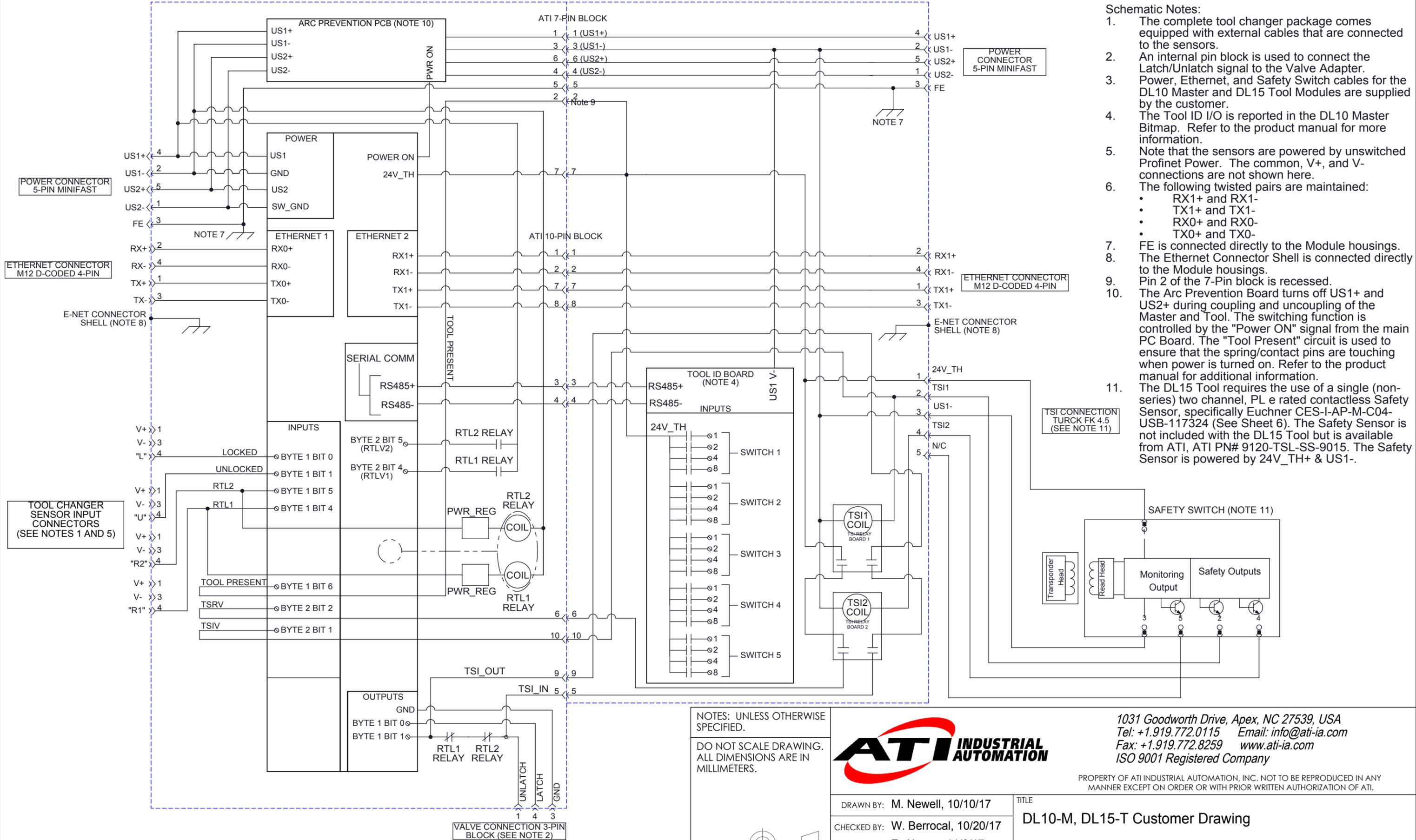
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PROJECT # 170905-2	SHEET 4 OF 6	SCALE 2:3	SIZE B
DRAWING NUMBER 9630-20-DL10M DL15T		REVISION 02	

**MASTER MODULE
9121-DL10-M**

**TOOL MODULE
9121-DL15-T**



- Schematic Notes:**
- The complete tool changer package comes equipped with external cables that are connected to the sensors.
 - An internal pin block is used to connect the Latch/Unlatch signal to the Valve Adapter.
 - Power, Ethernet, and Safety Switch cables for the DL10 Master and DL15 Tool Modules are supplied by the customer.
 - The Tool ID I/O is reported in the DL10 Master Bitmap. Refer to the product manual for more information.
 - Note that the sensors are powered by unswitched Profinet Power. The common, V+, and V- connections are not shown here.
 - The following twisted pairs are maintained:
 - RX1+ and RX1-
 - TX1+ and TX1-
 - RX0+ and RX0-
 - TX0+ and TX0-
 - FE is connected directly to the Module housings.
 - The Ethernet Connector Shell is connected directly to the Module housings.
 - Pin 2 of the 7-Pin block is recessed.
 - The Arc Prevention Board turns off US1+ and US2+ during coupling and uncoupling of the Master and Tool. The switching function is controlled by the "Power ON" signal from the main PC Board. The "Tool Present" circuit is used to ensure that the spring/contact pins are touching when power is turned on. Refer to the product manual for additional information.
 - The DL15 Tool requires the use of a single (non-series) two channel, PL e rated contactless Safety Sensor, specifically Euchner CES-I-AP-M-C04-USB-117324 (See Sheet 6). The Safety Sensor is not included with the DL15 Tool but is available from ATI, ATI PN# 9120-TSL-SS-9015. The Safety Sensor is powered by 24V_TH+ & US1-.

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		DRAWING NUMBER	REVISION
		9630-20-DL10M DL15T	02

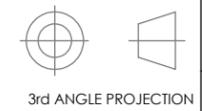
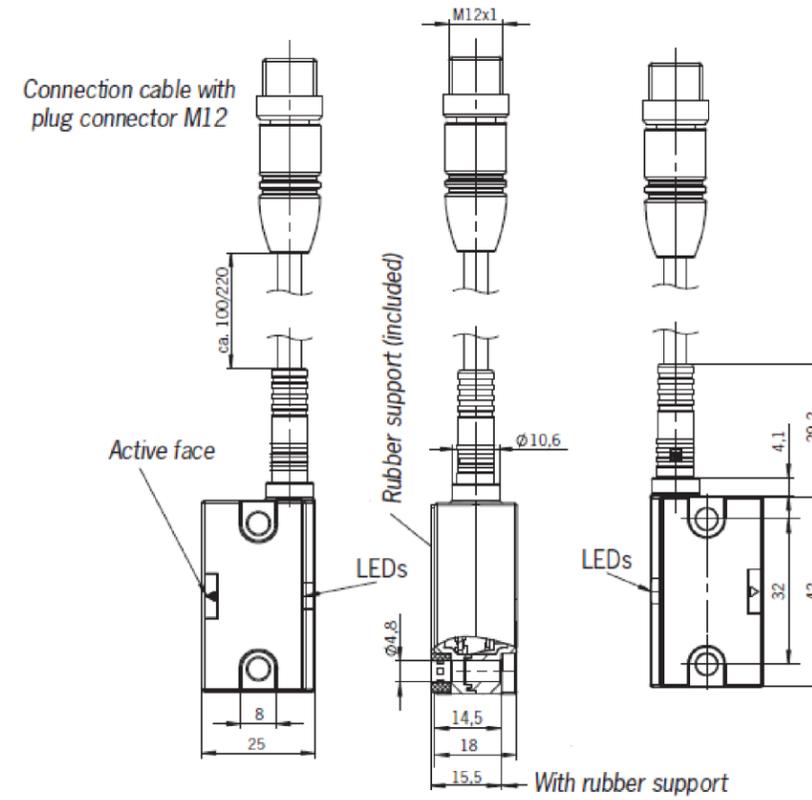


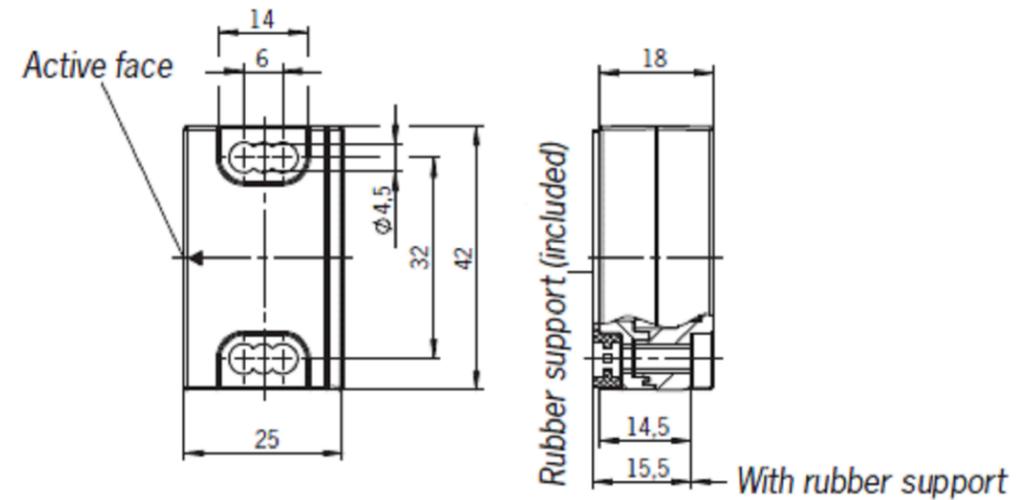


Figure 1: Euchner CES-AP-C04 Series Safety Sensor

Safety Switch: ATI PN# 8600-117324



Actuator: ATI PN# 8605-115271



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3rd ANGLE PROJECTION



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PROJECT # 170905-2 SHEET 6 OF 6

TITLE

DL10-M, DL15-T Customer Drawing

SCALE
1:2

SIZE
B

DRAWING NUMBER
9630-20-DL10M DL15T

REVISION
02