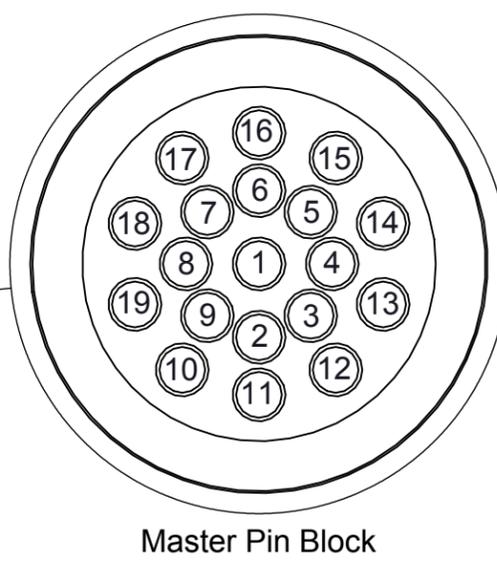
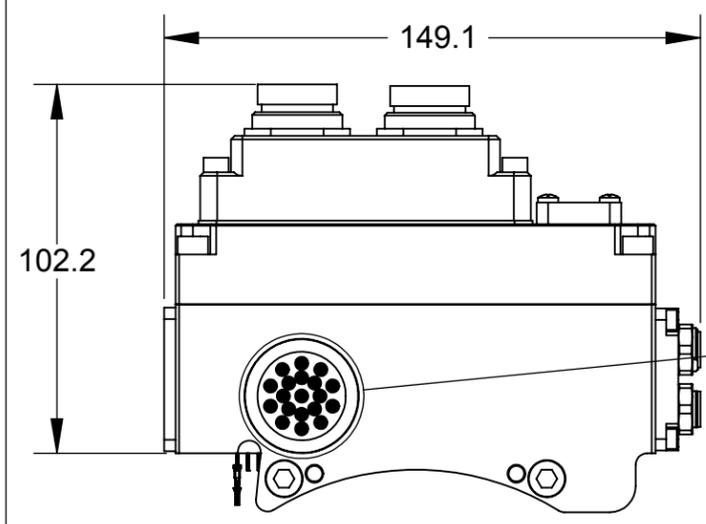
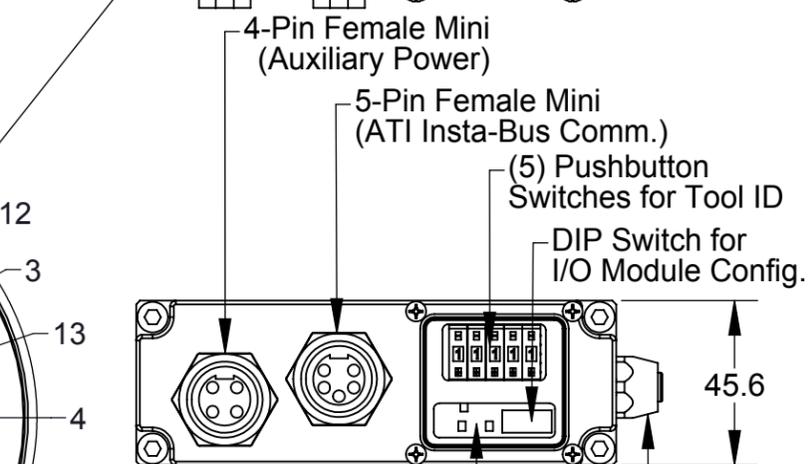
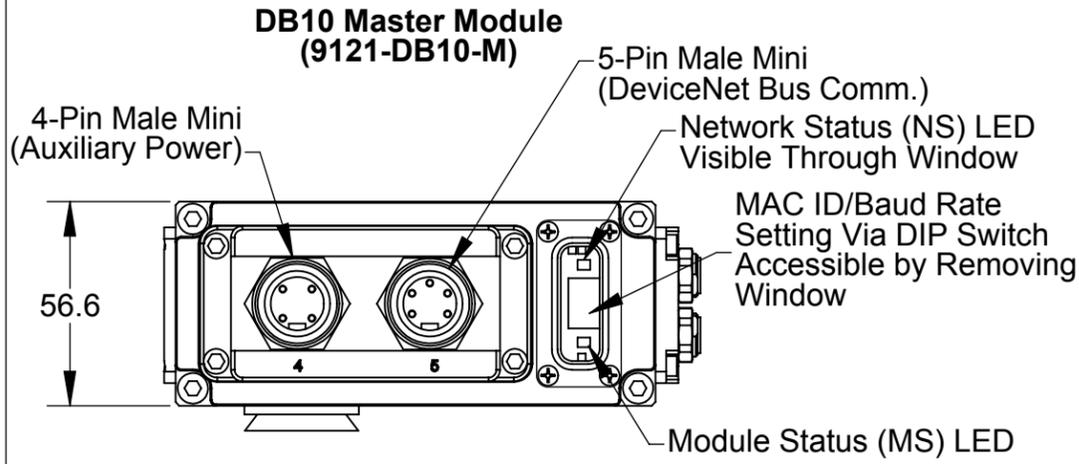
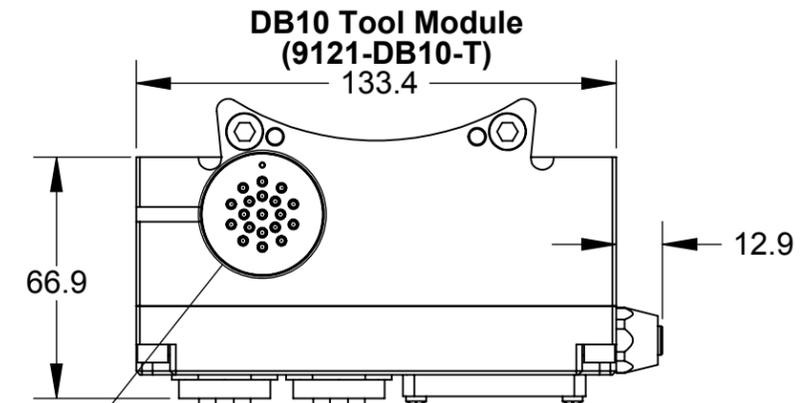
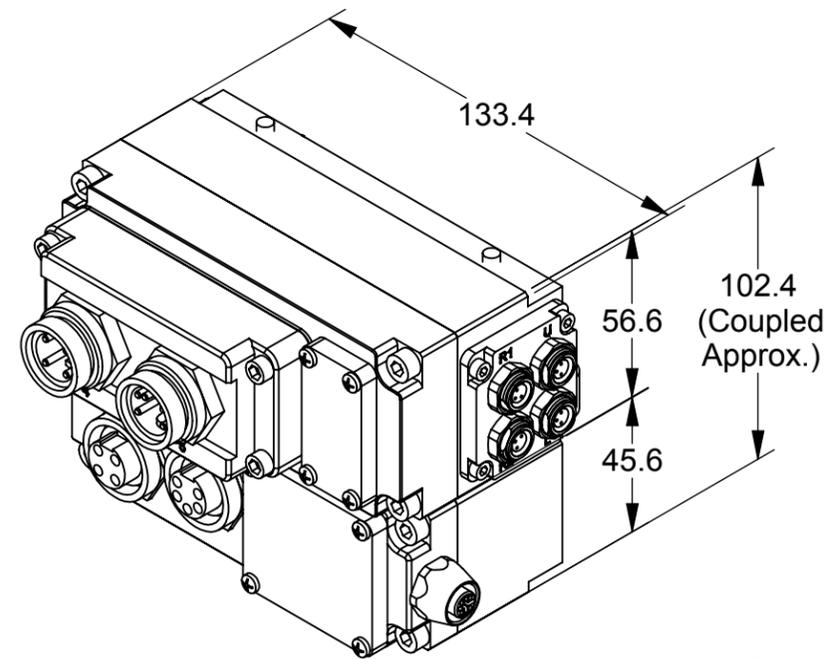


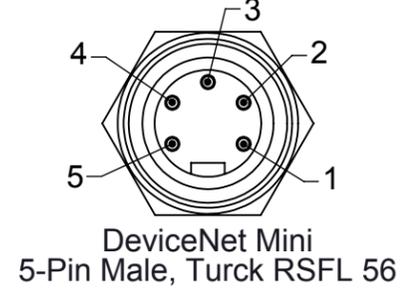
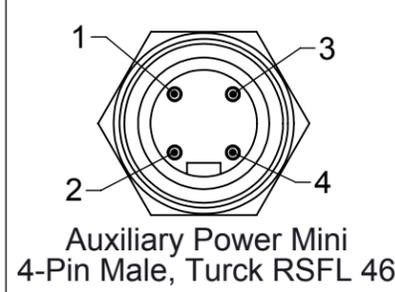
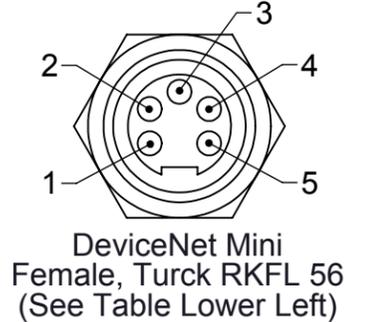
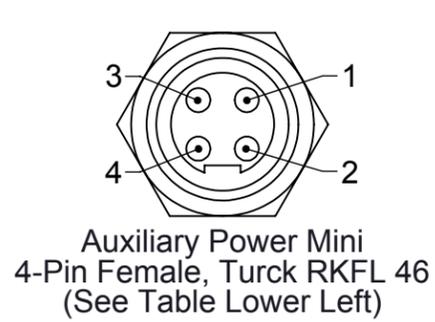
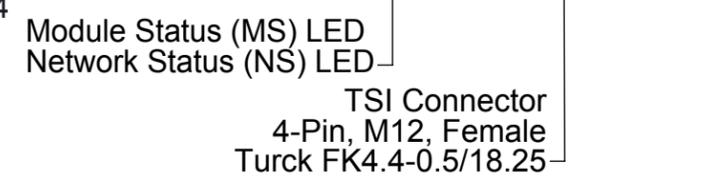
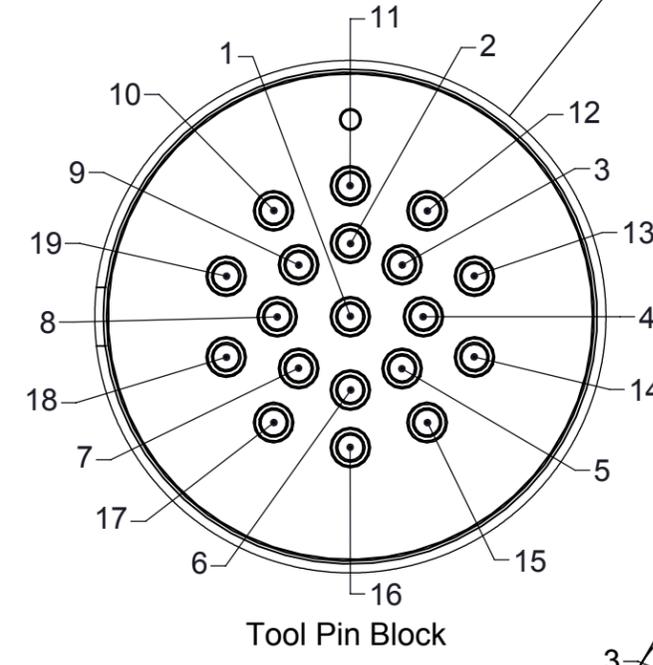
REV.	DESCRIPTION	INITIATOR	DATE
08	Eco 18277; Removed 9005-20-1199 Tool Side Cleat Assembly.	CF	8/29/2019

**Notes:**

1. The modules are shown at sheet scale. All connector face views are shown at a 1:1 scale, except as noted.
2. The 9121-DB10-T module supports the use of a mechanical limit switch for integration with the TSI feature (refer to Sheet 3).
3. Aux (4-Pin) and Bus (5-Pin) Connectors are oriented as shown on the Modules.
4. The DB10 Master module supports both single and double solenoid valves.



Pin	Description
1	Arc Switch Enable
2	TSIV
3	N/C
4	Drain
5	N/C
6	TSRV
7	CAN_H
8	Aux 1 V-
9	CAN_L
10	Aux 2 V-
11	N/C
12	CAN V+
13	CAN V+ (TSI)
14	Aux 2 V+
15	Aux 1 V+
16	N/C
17	TSI In
18	CAN V-
19	TSI Out

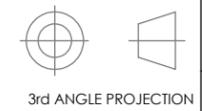


Auxiliary Power Connector	
1	Aux 1 V+
2	Aux 2 V+
3	Aux 2 V-
4	Aux 1 V-

DeviceNet Connector	
1	Drain
2	CAN V+
3	CAN V-
4	CAN_H
5	CAN_L

NOTES: UNLESS OTHERWISE SPECIFIED.

DO NOT SCALE DRAWING. ALL DIMENSIONS ARE IN MILLIMETERS.

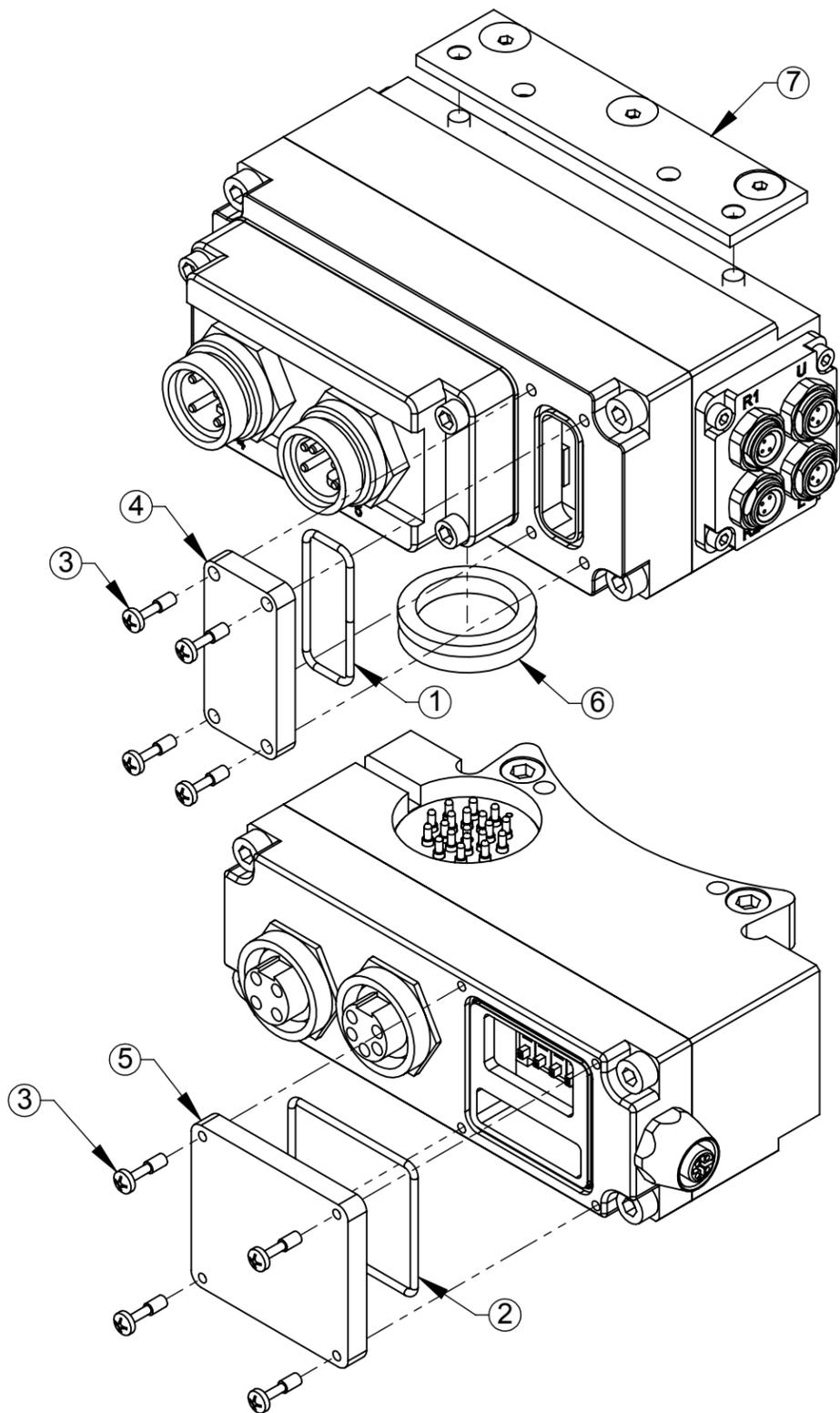


1031 Goodworth Drive, Apex, NC 27539, USA  
 Tel: +1.919.772.0115 Email: info@ati-ia.com  
 Fax: +1.919.772.8259 www.ati-ia.com  
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DRAWN BY: W. Berrocal, 12/13/10		TITLE	
CHECKED BY: A. Strotzer, 12/21/10		DB10 DeviceNet Module Drawing	
PROJECT # 100928-3	SHEET 1 OF 3	SCALE 1:2	SIZE B
DRAWING NUMBER 9630-20-DB10		REVISION 08	

# DB10-M/DB10-T Serviceable Parts

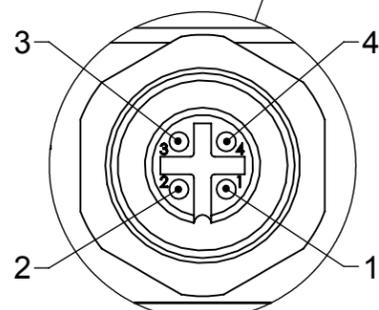


9121-DB10-M/T SERVICEABLE PARTS			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	3410-0001092-01	O-ring, Buna N 70D, AS568-023
2	1	3410-0001021-01	O-Ring AS568-031
3	8	3500-9957012-21	Pan Head M3 Captive Screw M3 X 12
4	1	3700-20-2696	Device Net Master Window, Thick
5	1	3700-20-3058	Insta-Tool Window
6	1	4010-0000030-01	V-Ring Seal V-22A Nitrile
7	1	9005-20-1198	Master Cleat Sub-Assembly

Tool Changer Integrated Proximity  
Sensor I/O Connections  
4X Turck MFKS 3  
(Cables Provided by ATI, Not Shown)

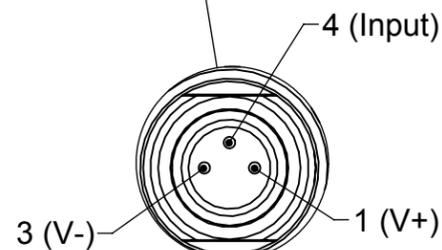
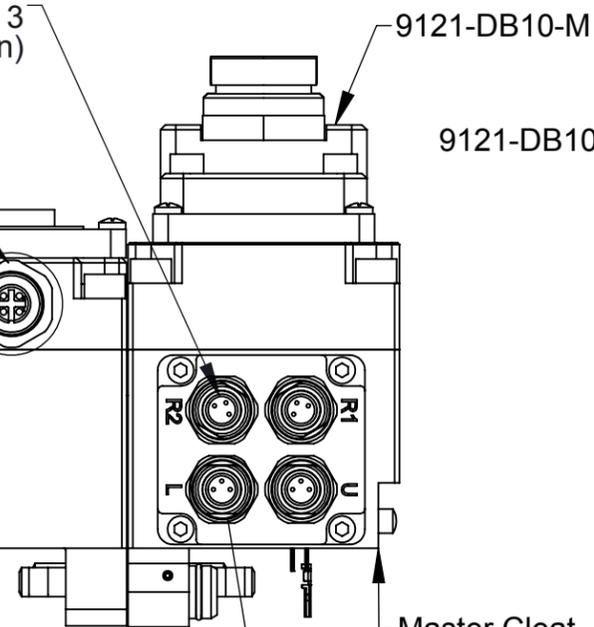
Connector orientation  
not guaranteed.

9121-DB10-T

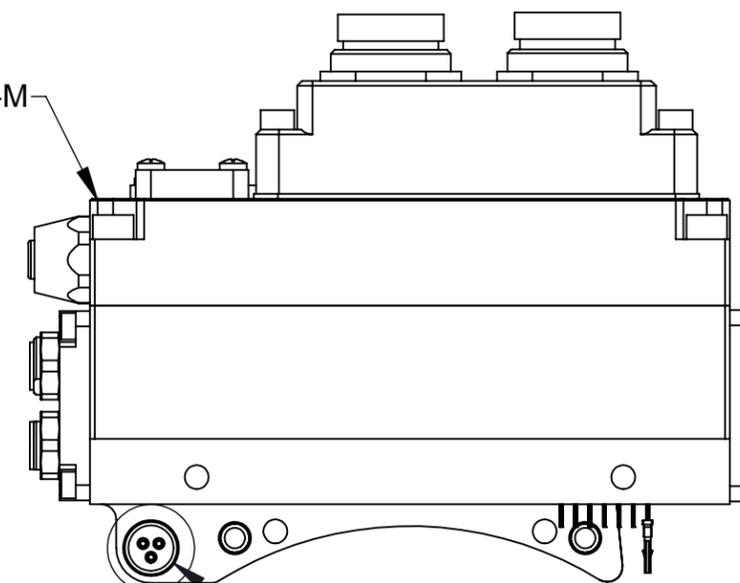


TSI Connector  
Turck M12 4-Pin Female  
FK4.4-0.5/18.25  
Scale 2:1

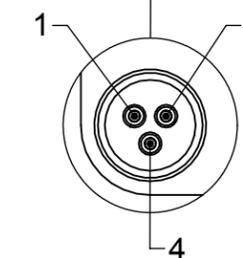
TSI Connector	
1	CAN V+
2	CAN V+
3	TSI Relay Control
4	TSIV Input



Sensor Input Connection  
Typical  
Turck MFKS 3F-PCBF  
Scale 2:1



Integrated Tool Changer  
Valve Connection  
(Interfaces with Valve  
Adapter Module, Not Shown)



Valve Signal Pin Block  
Scale 2:1

Valve Signal Pin Block	
1	V+ (Unlatch)
3	V- (Common)
4	V+ (Latch)

NOTES: UNLESS OTHERWISE  
SPECIFIED.

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MILLIMETERS.



3rd ANGLE PROJECTION



DRAWN BY: W. Berrocal, 12/13/10

CHECKED BY: A. Strotzer, 12/21/10

PROJECT # 100928-3 SHEET 2 OF 3

1031 Goodworth Drive, Apex, NC 27539, USA  
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Fax: +1.919.772.8259 www.ati-ia.com  
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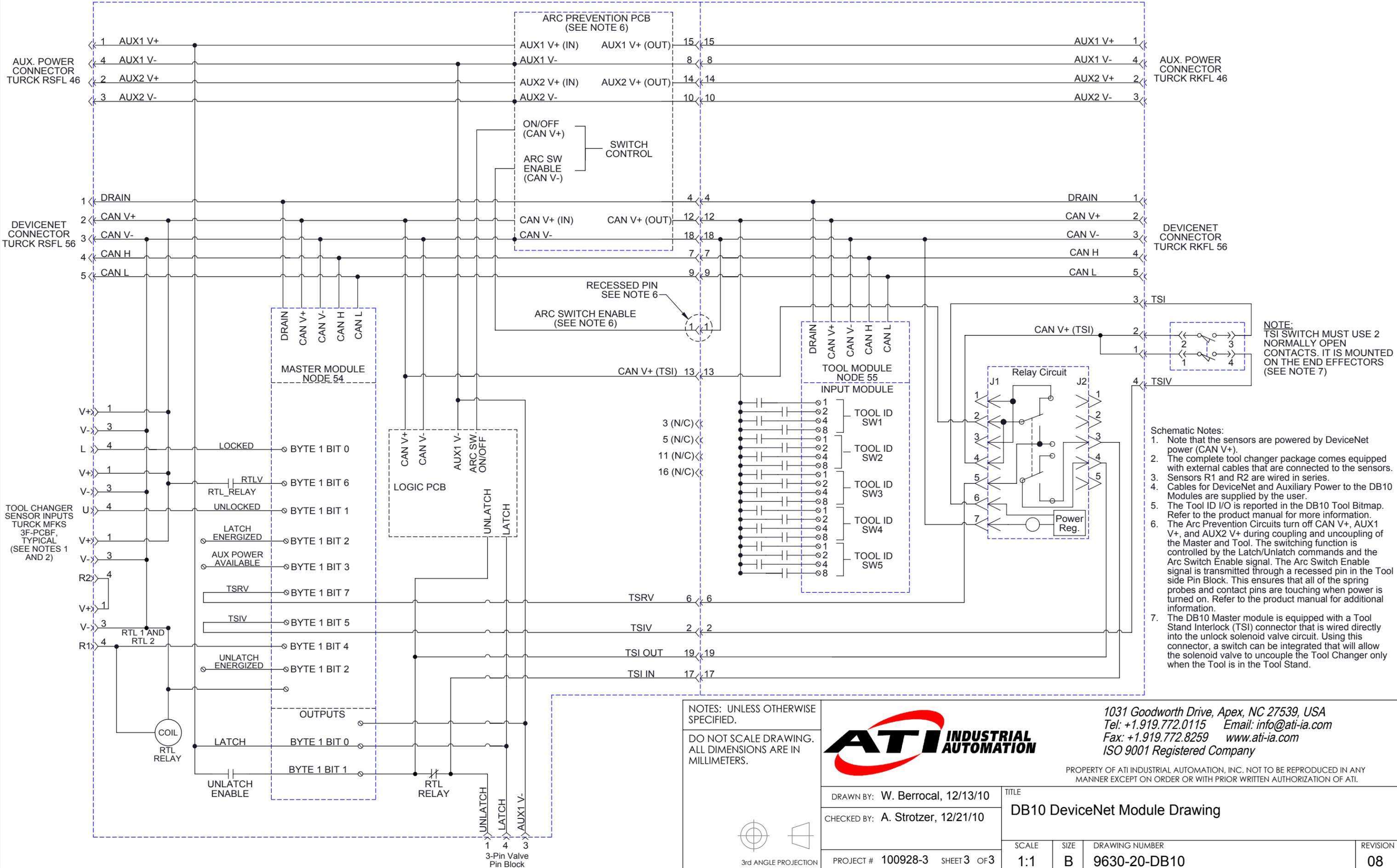
TITLE  
DB10 DeviceNet Module Drawing

SCALE	SIZE	DRAWING NUMBER	REVISION
1:2	B	9630-20-DB10	08

DB10 MASTER MODULE

ATI PIN BLOCK INTERFACE

DB10 TOOL MODULE

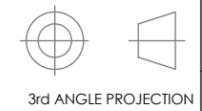


NOTE:  
TSI SWITCH MUST USE 2  
NORMALLY OPEN  
CONTACTS. IT IS MOUNTED  
ON THE END EFFECTORS  
(SEE NOTE 7)

- Schematic Notes:
- Note that the sensors are powered by DeviceNet power (CAN V+).
  - The complete tool changer package comes equipped with external cables that are connected to the sensors.
  - Sensors R1 and R2 are wired in series.
  - Cables for DeviceNet and Auxiliary Power to the DB10 Modules are supplied by the user.
  - The Tool ID I/O is reported in the DB10 Tool Bitmap. Refer to the product manual for more information.
  - The Arc Prevention Circuits turn off CAN V+, AUX1 V+, and AUX2 V+ during coupling and uncoupling of the Master and Tool. The switching function is controlled by the Latch/Unlatch commands and the Arc Switch Enable signal. 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.
  - The DB10 Master module is equipped with a Tool Stand Interlock (TSI) connector that is wired directly into the unlock solenoid valve circuit. Using this connector, a switch can be integrated that will allow the solenoid valve to uncouple the Tool Changer only when the Tool is in the Tool Stand.

NOTES: UNLESS OTHERWISE SPECIFIED.

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DRAWN BY: W. Berrocal, 12/13/10		TITLE	
CHECKED BY: A. Strotzer, 12/21/10		DB10 DeviceNet Module Drawing	
PROJECT # 100928-3	SHEET 3 OF 3	SCALE 1:1	SIZE B
DRAWING NUMBER 9630-20-DB10		REVISION 08	