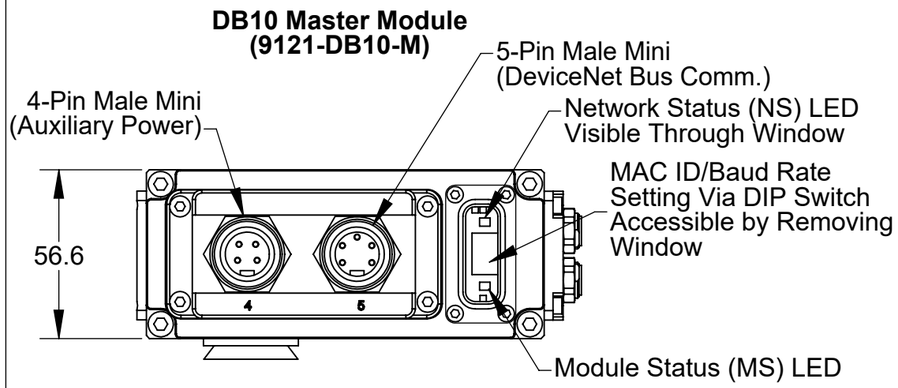
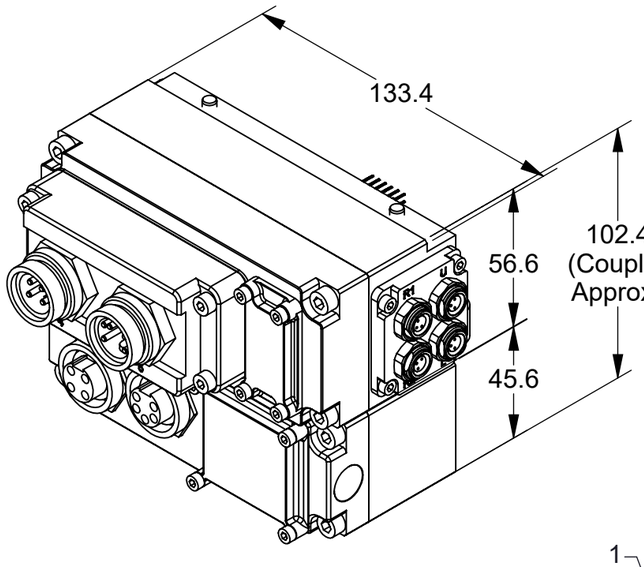
Notes:
1. The modules are shown at sheet scale. All connector face views are shown at a 1:1 scale, except as noted.
2. The 9121-DB10-T module supports the use of a mechanical limit switch for integration with the TSI feature (refer to Sheet 3).
3. Aux (4-Pin) and Bus (5-Pin) Connectors are oriented as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

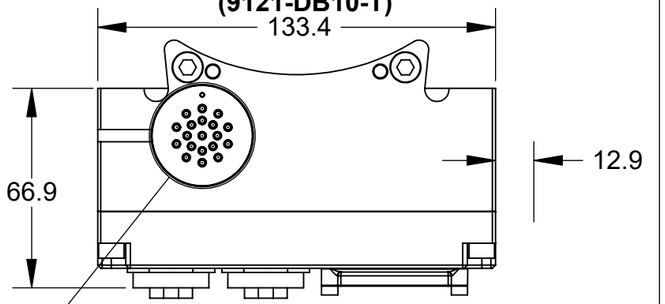
REV.	DESCRIPTION	INITIATOR	DATE
09	ECO 21749: Updated to show changes to Tool ID Window, injection molded	BAW	3/2/2026

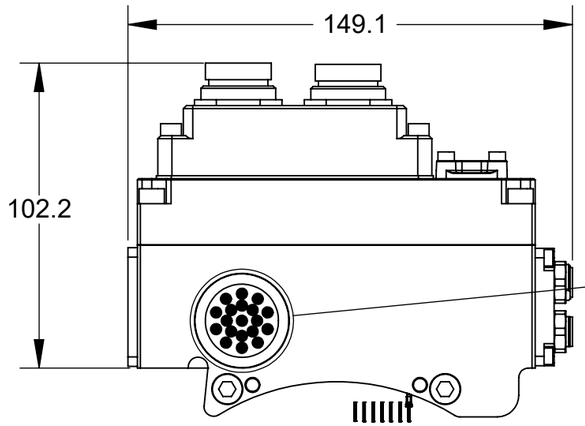
DB10 Master Module
(9121-DB10-M)

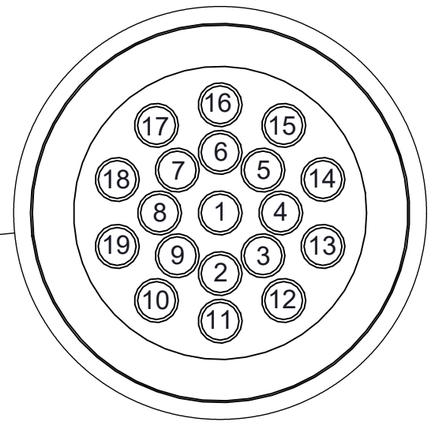




DB10 Tool Module
(9121-DB10-T)

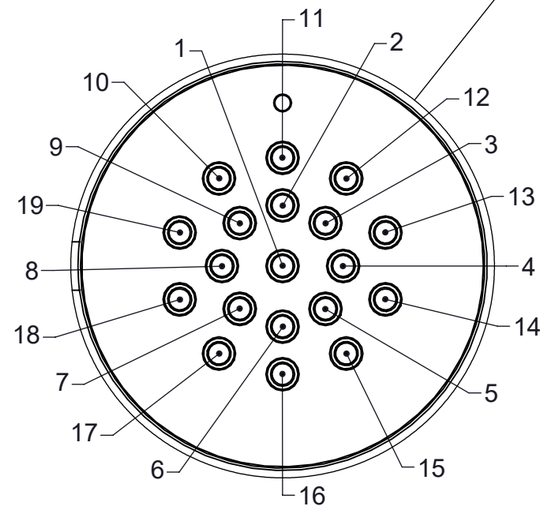




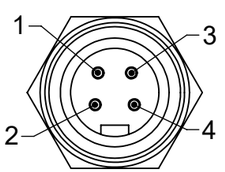


Master Pin Block

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

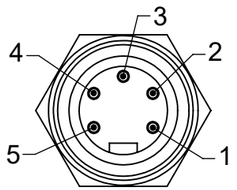


Tool Pin Block



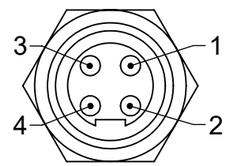
Auxiliary Power Mini
4-Pin Male, Turck RSFL 46

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

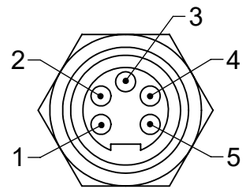


DeviceNet Mini
5-Pin Male, Turck RSFL 56

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



Auxiliary Power Mini
4-Pin Female, Turck RKFL 46
(See Table Lower Left)



DeviceNet Mini
Female, Turck RKFL 56
(See Table Lower Left)

NOTES: UNLESS OTHERWISE SPECIFIED.

DO NOT SCALE DRAWING. ALL DIMENSIONS ARE IN MILLIMETERS.

3rd ANGLE PROJECTION

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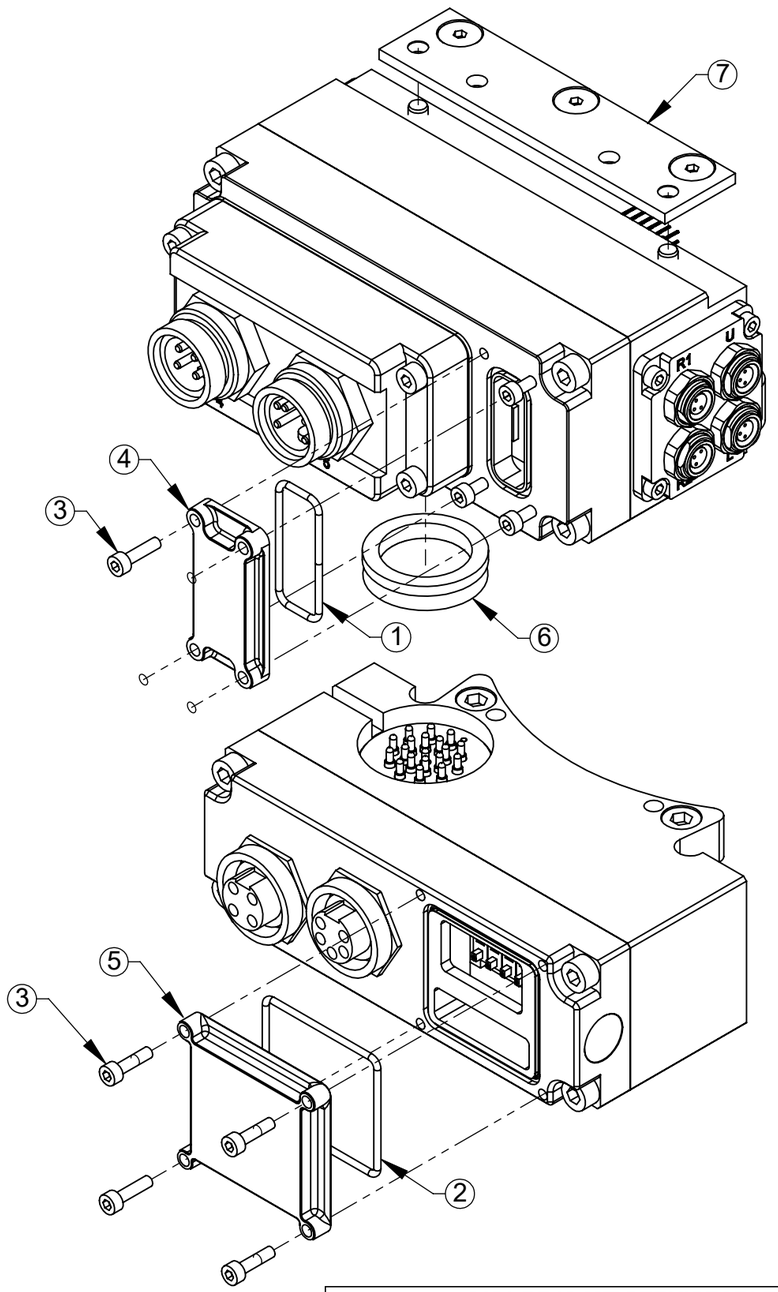
CHECKED BY: A. Strotzer, 12/21/10

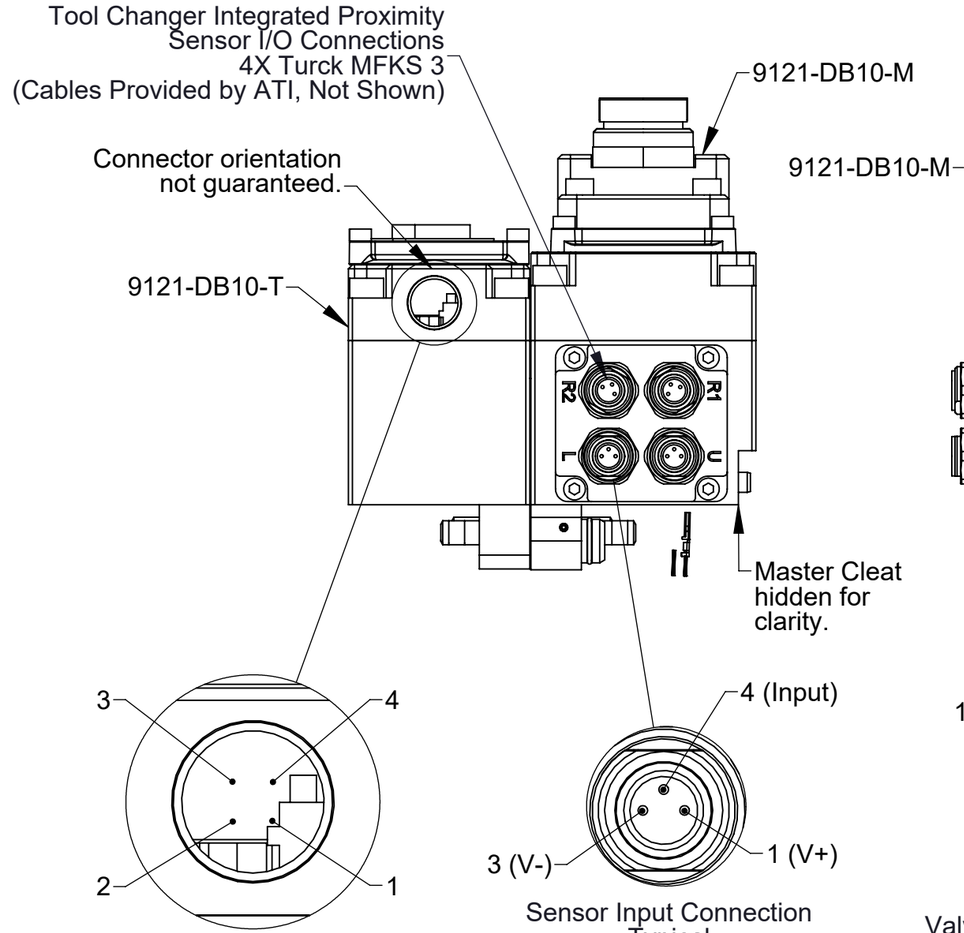
PROJECT # 100928-3 SHEET 1 OF 3

TITLE: DB10 DeviceNet Module Drawing

SCALE	SIZE	DRAWING NUMBER	REVISION
1:2	B	9630-20-DB10	09

DB10-M/DB10-T Serviceable Parts

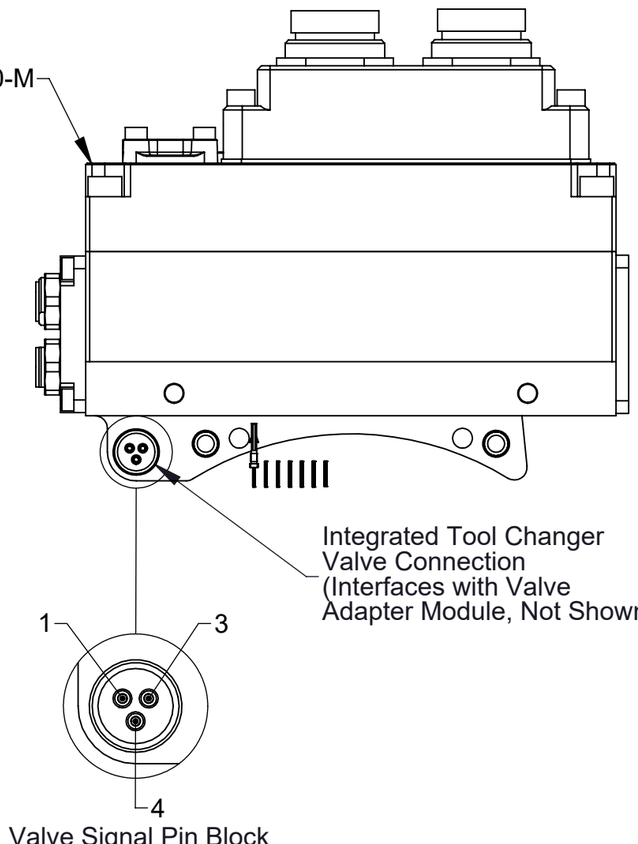




TSI Connector
Turck M12 4-Pin Female
FK4.4-0.5/18.25
Scale 2:1

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



Valve Signal Pin Block
Scale 2:1

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

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	3500-1058012-15	M3 x 12 SCHS, Corrosion Protection
4	1	3700-20-2696	Device Net Master Window, Thick
5	1	3700-20-11880	Tool ID Window
6	1	4010-0000030-01	V-Ring Seal V-22A Nitrile
7	1	9005-20-1198	Master Cleat Sub-Assembly

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3rd ANGLE PROJECTION

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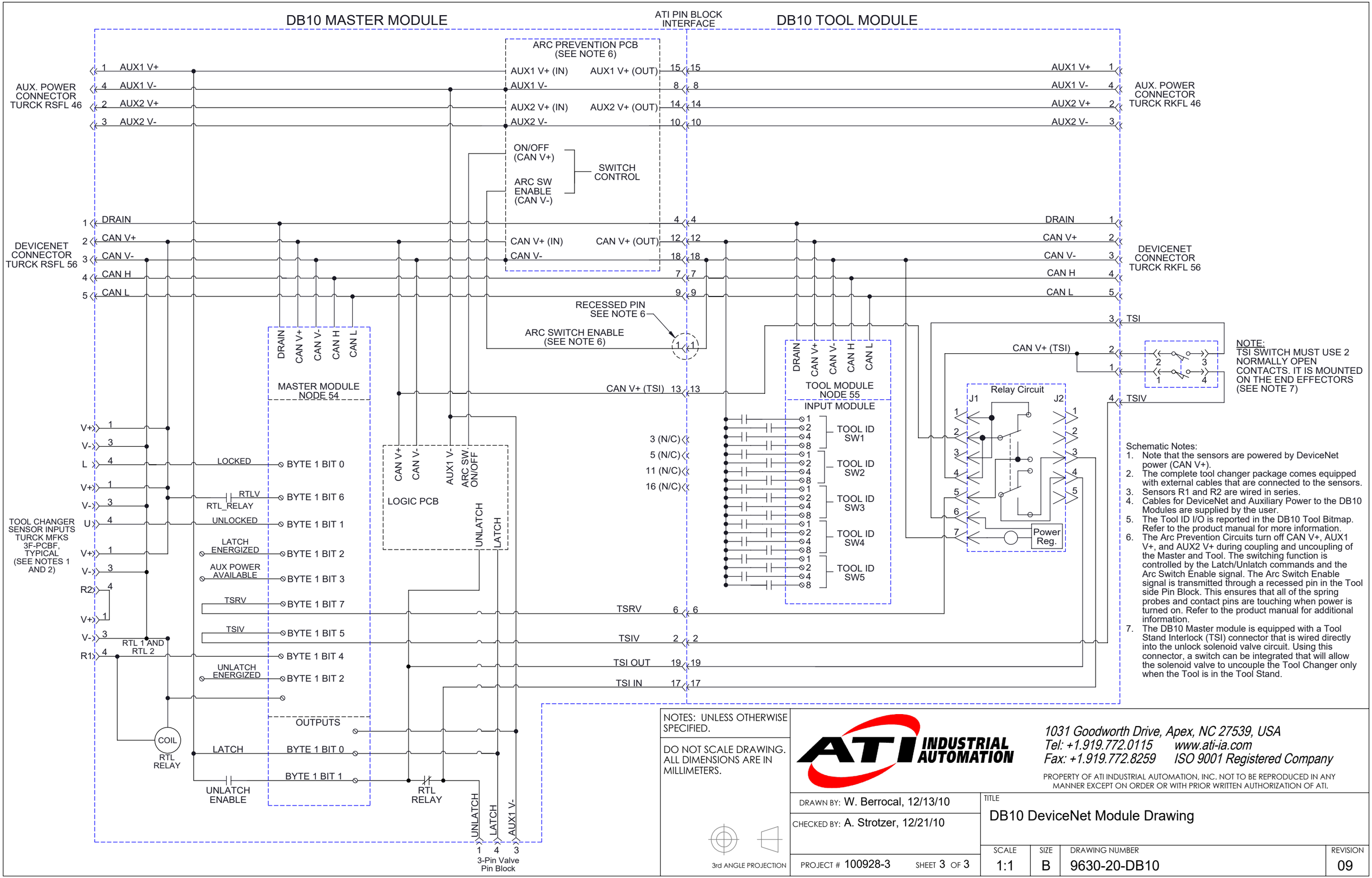
DRAWN BY: W. Berrocal, 12/13/10

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

PROJECT # 100928-3 SHEET 2 OF 3

TITLE: DB10 DeviceNet Module Drawing

SCALE	SIZE	DRAWING NUMBER	REVISION
1:2	B	9630-20-DB10	09



Schematic Notes:

1. Note that the sensors are powered by DeviceNet power (CAN V+).
2. The complete tool changer package comes equipped with external cables that are connected to the sensors.
3. Sensors R1 and R2 are wired in series.
4. Cables for DeviceNet and Auxiliary Power to the DB10 Modules are supplied by the user.
5. The Tool ID I/O is reported in the DB10 Tool Bitmap. Refer to the product manual for more information.
6. 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.
7. 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.

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

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

PROJECT # 100928-3 SHEET 3 OF 3

TITLE: DB10 DeviceNet Module Drawing

SCALE	SIZE	DRAWING NUMBER	REVISION
1:1	B	9630-20-DB10	09