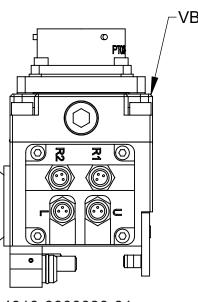
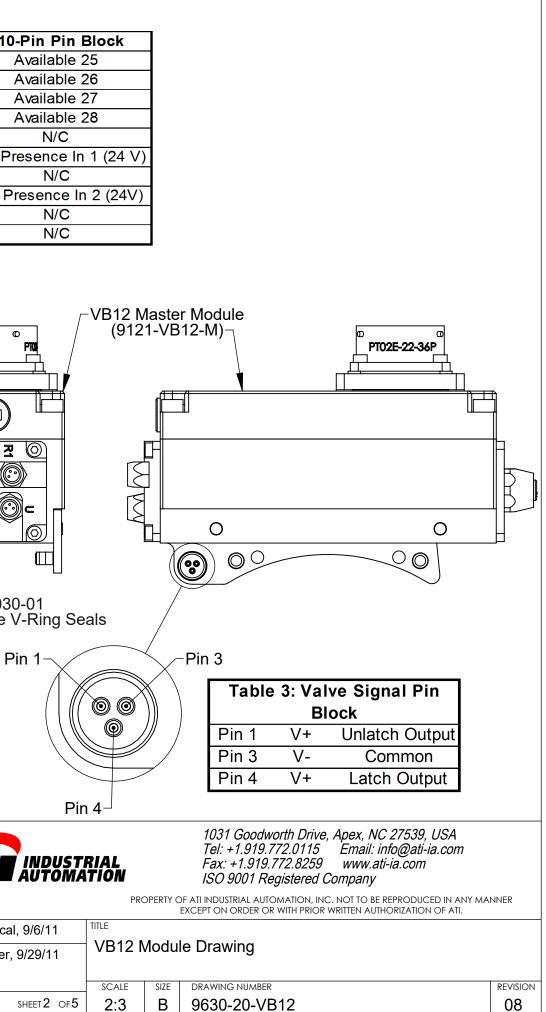


Table	1: 26-Pin Pin Block
1	Available 1
2	Available 2
2 3	Available 3
4	Available 4
5	Available 5
6	Available 6
7	Available 7
8	Available 8
9	24V
10	Available 9
11	24V
12	Available 10
13	Available 11
14	Available 12
15	Available 13
16	Available 14
17	Available 15
18	Available 16
19	Available 17
20	Available 18
21	Available 19
22	Available 20
23	Available 21
24	Available 22
25	Available 23
26	Available 24

Tal	ole 2: 10-Pin Pin Block
1	Available 25
2	Available 26
3	Available 27
4	Available 28
5	N/C
6	Tool Presence In 1 (24 )
7	N/C
8	Tool Presence In 2 (24\
9	N/C
10	N/C

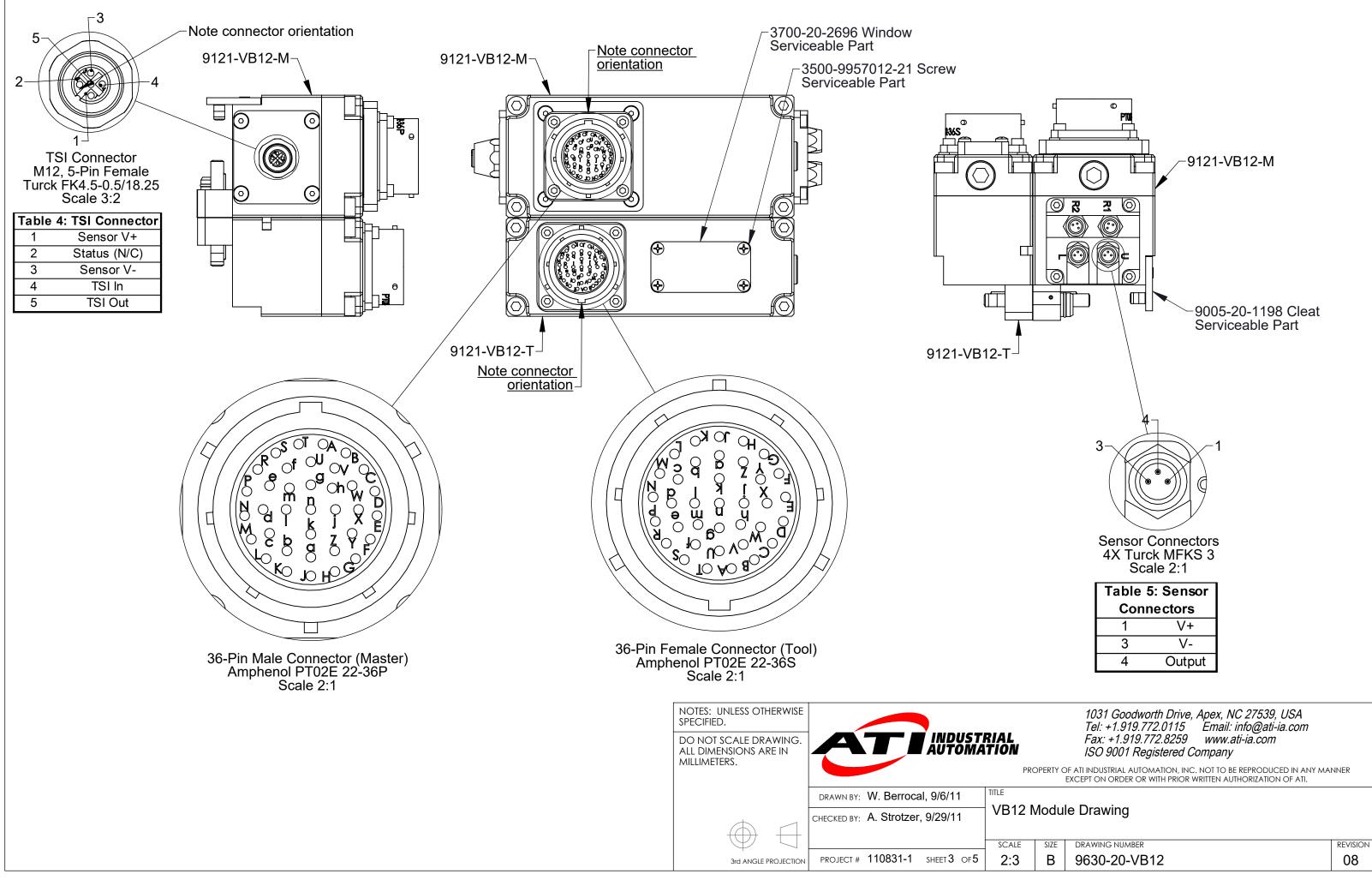


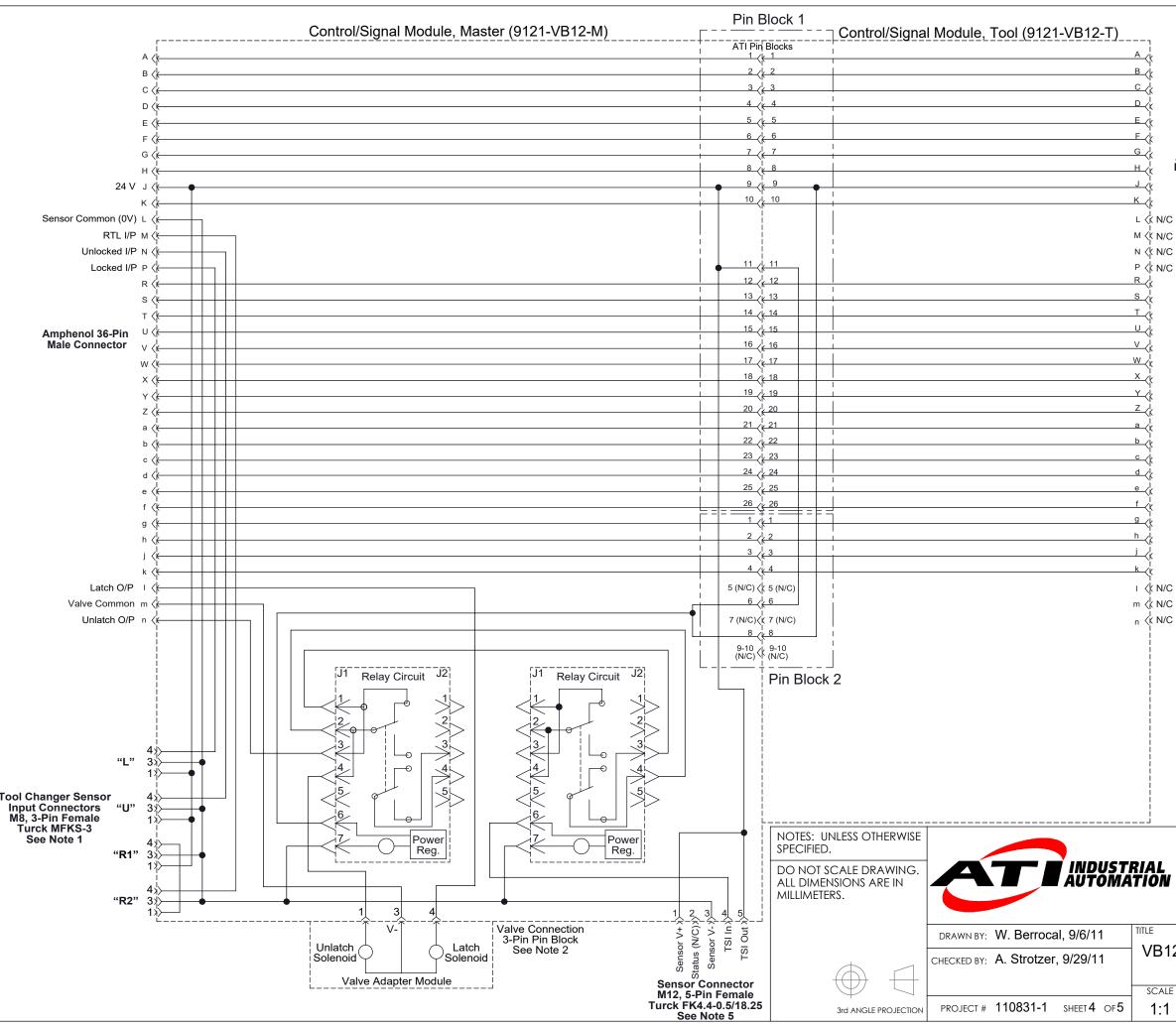
└4010-0000030-01 Replaceable V-Ring Seals



	NOTES: UNLESS OTHERWISE SPECIFIED.		
DO NOT SCALE DRAWING. ALL DIMENSIONS ARE IN MILLIMETERS.			TRIAL IATION Pr
		DRAWN BY: W. Berrocal, 9/6/11	TITLE
		CHECKED BY: A. Strotzer, 9/29/11	- VB12
	$\Psi$ $\square$		SCALE
	3rd ANGLE PROJECTION	PROJECT # 110831-1 SHEET 2 OF	5 2:3

9630-20-VB12





## Amphenol 36-Pin Female Connector

## Notes:

- The complete tool changer package comes equipped with external cables that are connected to the sensors. 1.
- 2. An internal pin block is used to transmit the Latch/Unlatch signal to the valve adapter, as shown in the schematic.
- Note that the VB12 module is designed to operate with ONLY PNP sensors. The Ready-to-Lock sensors are 3. wired in series.
- 4. The Latch and Unlatch command signals must be sourcing, NOT sinking. The VB12 Master module is designed to work with
- 5. RFID, mechanical, or magnetically based safety switches (switches available separately, refer to Sheet 5). The safety switch must be mounted to the Master side of the Tool changer. With RFID and magnetic switches, the transponder/actuator must be mounted to the tool stand.

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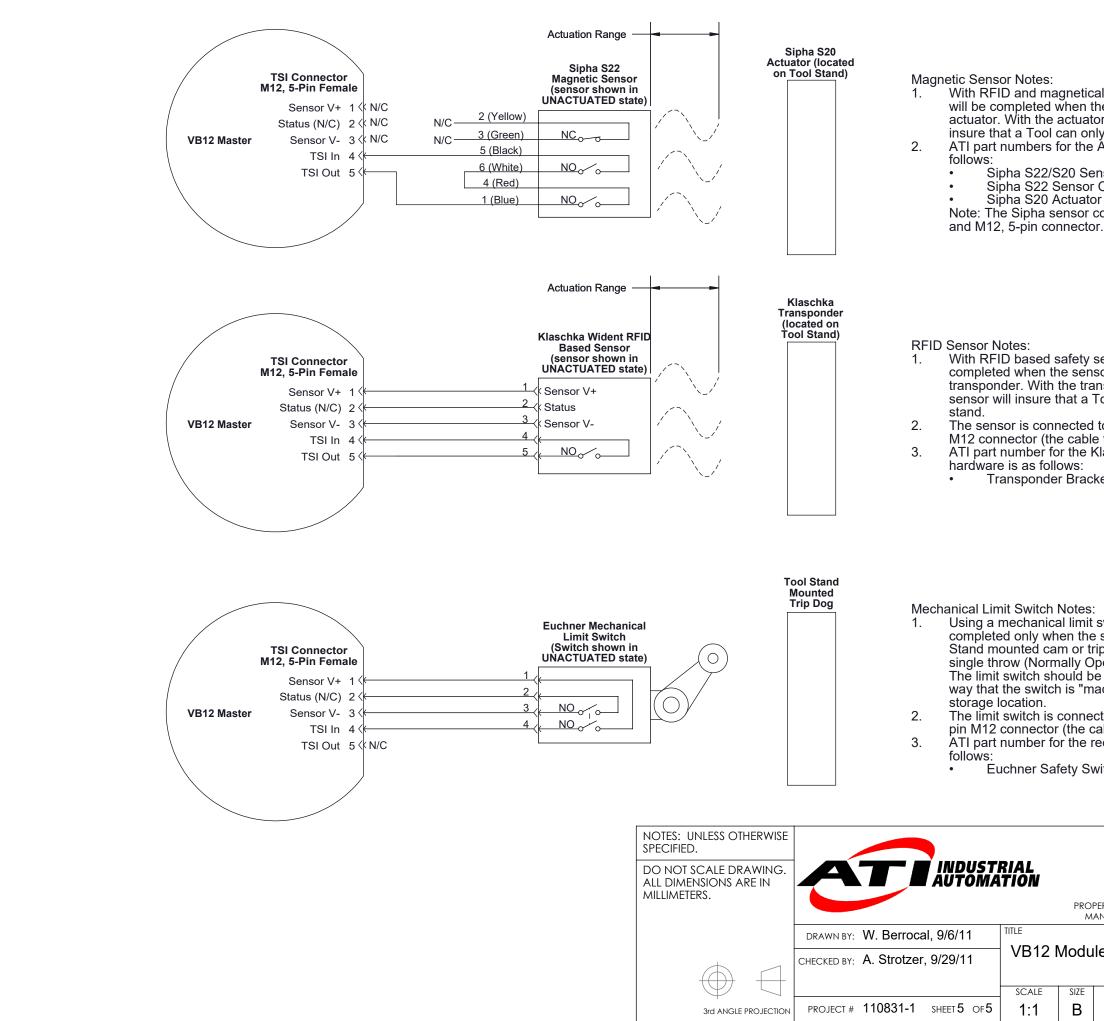
## VB12 Module Drawing

SIZE

В

DRAWING NUMBER 9630-20-VB12

REVISION



With RFID and magnetically based safety sensors, the unlock circuit will be completed when the sensor is in close proximity to the actuator. With the actuator mounted on the tool stand, the sensor will insure that a Tool can only be released at the tool stand. ATI part numbers for the Állen-Bradley Sipha magnetic sensor are as

Sipha S22/S20 Sensor and Actuator: 8600-440N-S32023-01 Sipha S22 Sensor Only: 8600-440N-S32023 Sipha S20 Actuator Only: 8605-440N-A32020 Note: The Sipha sensor comes pre-assembled with a 3m long cable

With RFID based safety sensors, the unlock circuit will be completed when the sensor is in close proximity to the transponder. With the transponder mounted on the tool stand, the sensor will insure that a Tool can only be released at the tool

The sensor is connected to the VB12 Master module via the 5-pin M12 connector (the cable to the sensor is not included). ATI part number for the Klaschka WIDENT safety sensor mounting

Transponder Bracket Assembly: 9121-TSL-KT-5841

Using a mechanical limit switch, the unlock circuit will be completed only when the switch has been actuated by a Tool Stand mounted cam or trip dog. It is suggested that a single pole, single throw (Normally Open, spring return) limit switch is utilized. The limit switch should be mounted to the end effector in such a way that the switch is "made" only when the Tool is in the stand or

The limit switch is connected to the VB12 Master module via the 5pin M12 connector (the cable to the limit switch is not included). ATI part number for the recommended Euchner limit switch is as

Euchner Safety Switch NZ1HS-3131-M: 8510-9909999-01

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## VB12 Module Drawing

E	SIZE	DRAWING NUMBER	REVISION
	В	9630-20-VB12	08