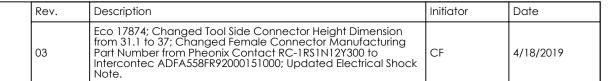


"DANGER!" - Electrical Shock Hazard

This module has a Voltage of 50V or greater, NO contact should be attempted before removing power. This especially includes separation or insertion of the mating connectors or any contact with the tool changer or its components.



ADFA558FR92000151000

9121-VB19-T

Tool Module

Intercontec

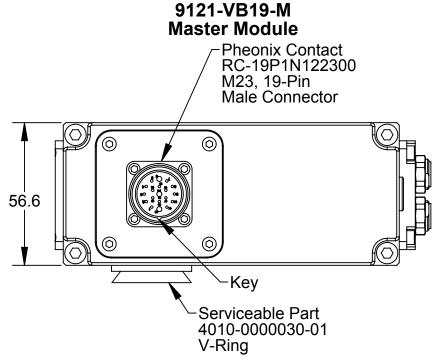
M23, 19-Pin-

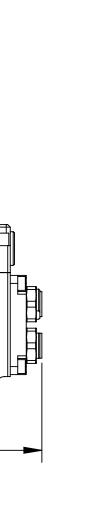
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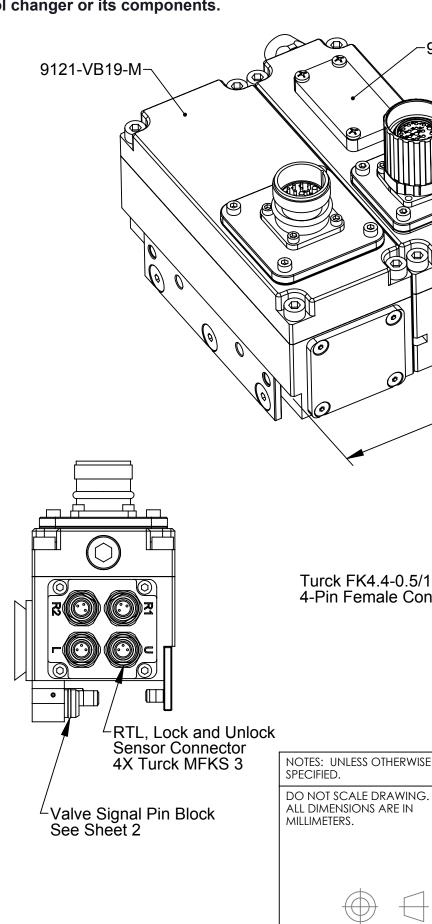
REVISION

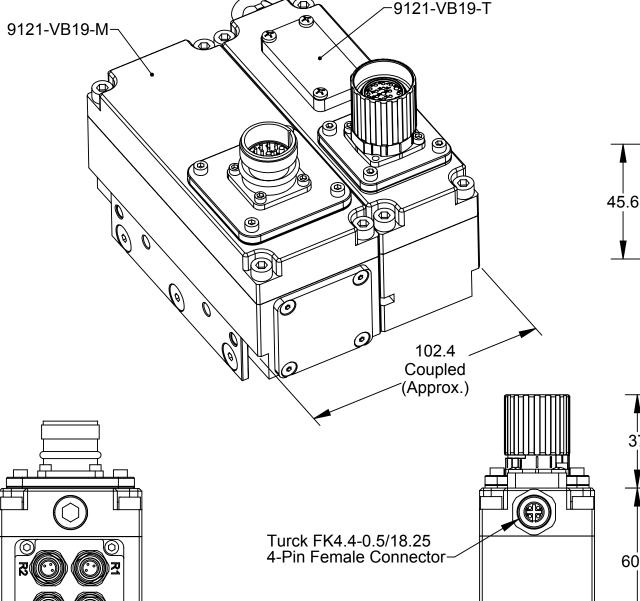
03

Female Receptacle









INDUSTRIAL AUTOMATION

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DRAWN BY: P.Luczka, 11/17/14

60.3

CHECKED BY: W.Berrocal, 11/19/14 F.Alfonso, 11/20/14

3rd ANGLE PROJECTION

VB19 Discrete Signal Module Customer Drawing

SCALE PROJECT # 141114-5 SHEET 1 OF 5 2:3 В

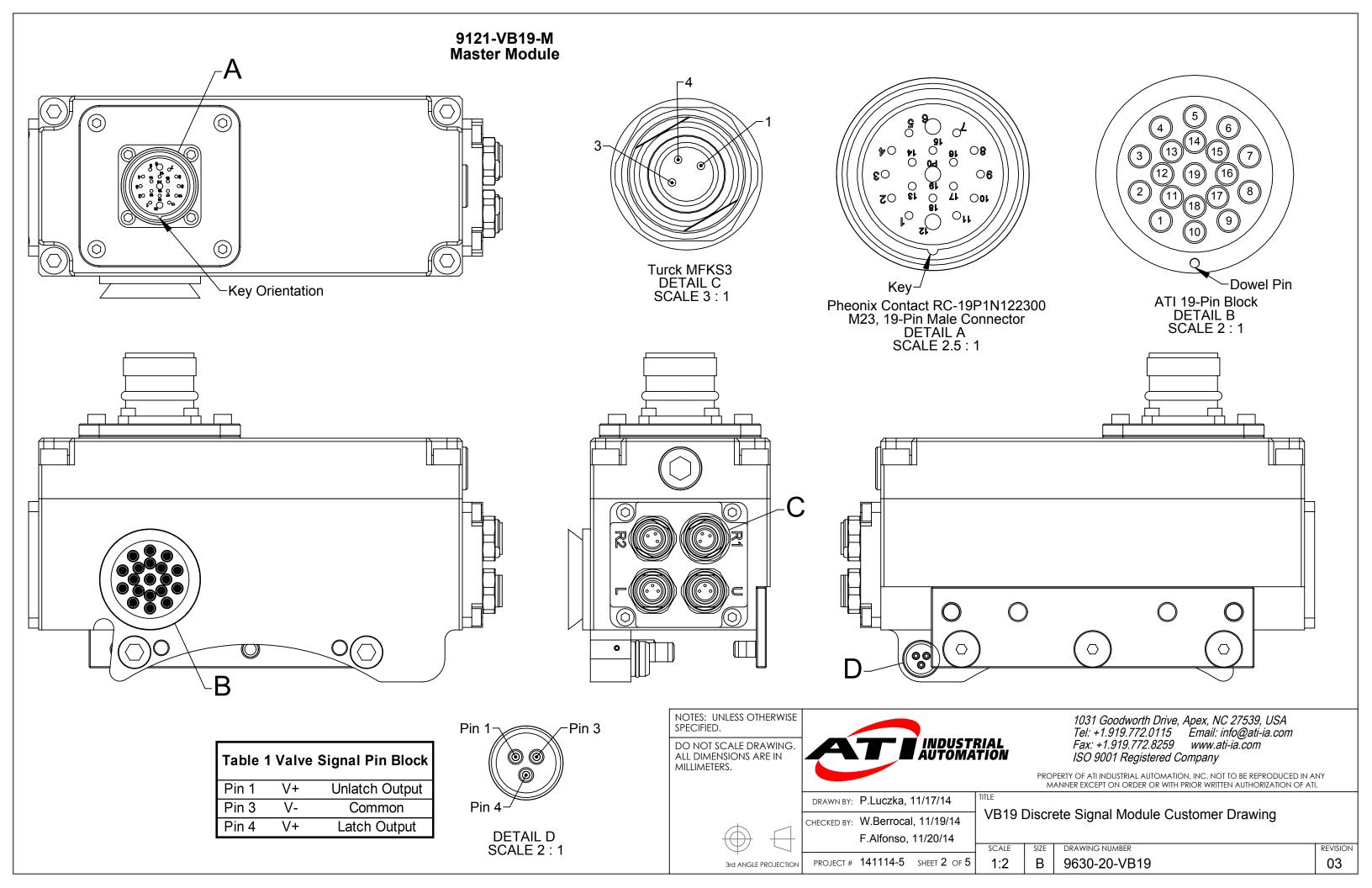
DRAWING NUMBER 9630-20-VB19

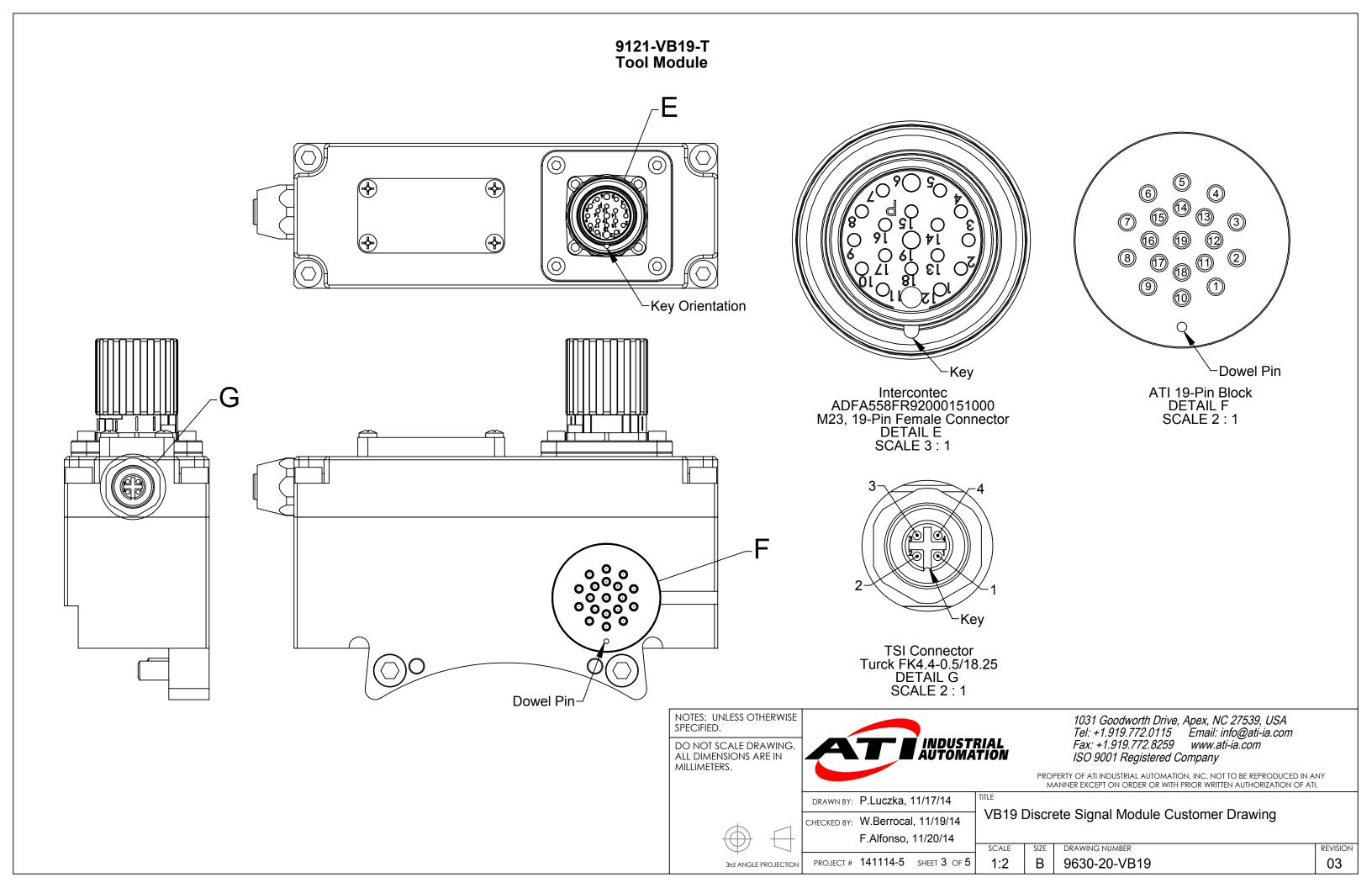
26.8

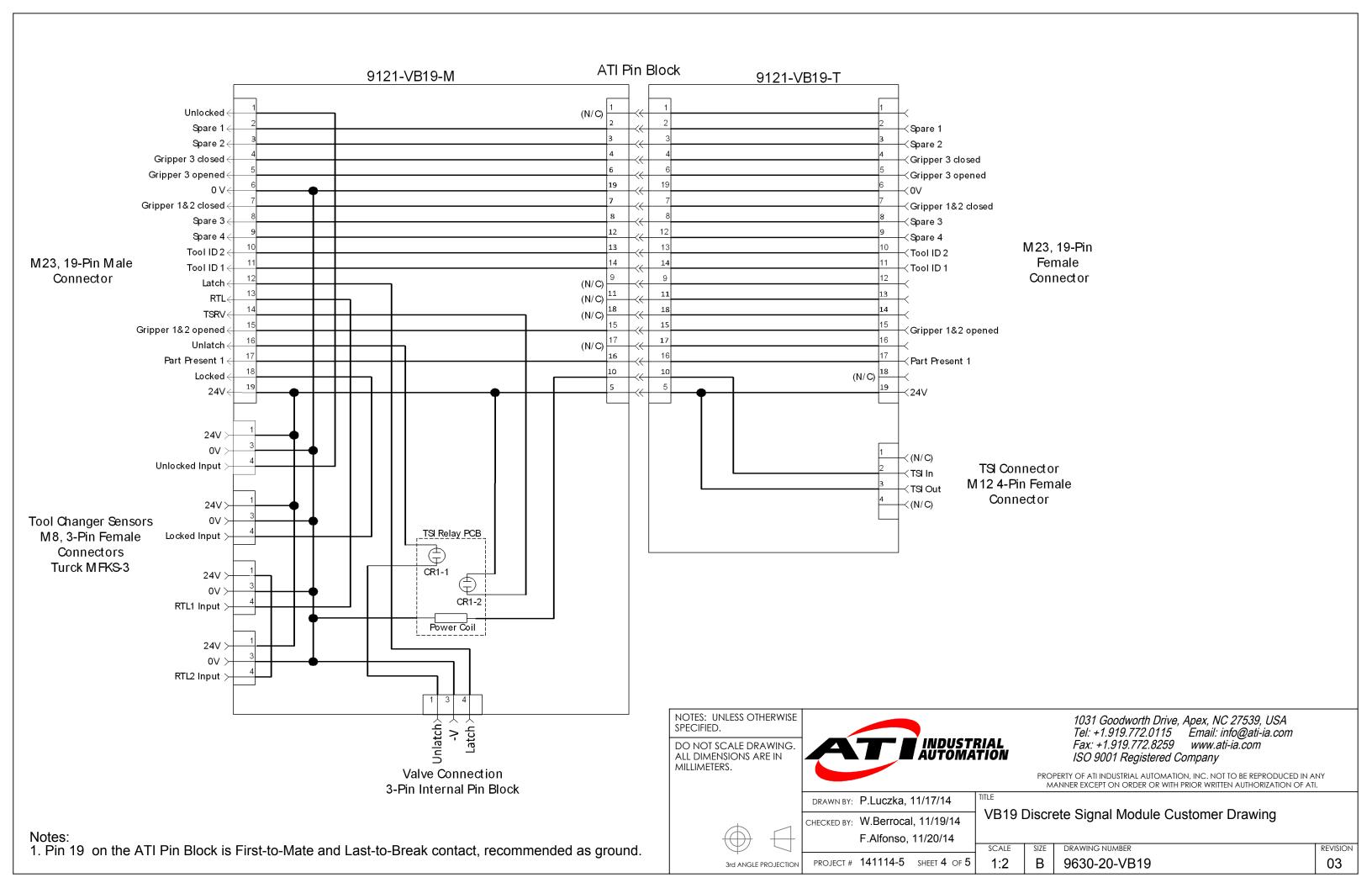
60.3

Dowel Pin

Module Electrical rating: 24VDC signal, 5A/250V Pass through.
See Sheets 2 and 3 for Customer Interface information.
See Sheet 4 for module wiring schematic.
Customer approval of electrical schematic is required.
Customer is to approve connector selection and orientation.







Actuation range (N/C)Ν.Ο. TSI In 4-Pin Female Connector TSI Out (N/C)

> Sipha S20 Actuator Magnetic Sensor (Shown in unactuated state)

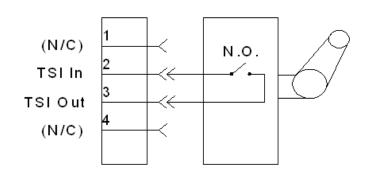
Magnetic Sensor Notes:

- 1. 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 Allen-Bradley Sipha magnetic sensor are as follows:
 - 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 and M12, 5-pin connector.

TSI Connector Turck FK4.4-0.5/18.25 4-Pin Female Connector

TSI Connector

Turck FK4.4-0.5/18.25



Euchner Mechanical Limit switch

Tool Stand Mounted Trip Dog

Sipha S20 Actuator

(Located on Tool Stand)

Mechanical Limit Switch Notes:

- 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 storage location.
- The limit switch is connected to the VB12 Master module via the 5-pin M12 connector (the cable to the limit switch is not included).
- ATI part number for the recommended Euchner limit switch is as follows:
 - Euchner Safety Switch NZ1HS-3131-M: 8510-9909999-01

NOTES: UNLESS OTHERWISE SPECIFIED. DO NOT SCALE DRAWING. ALL DIMENSIONS ARE IN MILLIMETERS.

3rd ANGLE PROJECTION

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DRAWN BY: P.Luczka, 11/17/14 CHECKED BY: W.Berrocal, 11/19/14 F.Alfonso. 11/20/14

VB19 Discrete Signal Module Customer Drawing

SCALE PROJECT # 141114-5 SHEET 5 OF 5 1:1 В

DRAWING NUMBER 9630-20-VB19 REVISION 03