

- Serviceable parts for the DKP are shown on Sheet 4. The electrical schematic is shown on
- Unless otherwise noted, the Auxiliary Power and Ethernet connectors are oriented as shown in this drawing.
- DKP Master Module is supplied with Master Cleat Assembly 9005-20-1198 to be used for securing tool changer sensor cables.



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EXCEPT ON ORDER OR WITH PRIOR WRITTEN AUTHORIZATION OF ATI.

DRAWN BY: A. Takla, 07/08/16 CHECKED BY: W. Berrocal, 01/17/17 L. Jamshidi, 01/16/17

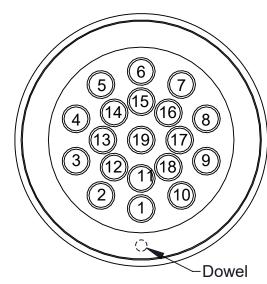
DKP Ethernet Control Module Customer Drawing

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Master Pin Block (See Table 1) DETAIL A

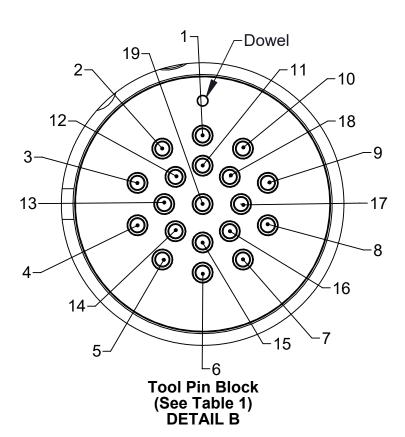


Table 1: Pin Designations			
1	TSRV		
2	TSI OUT		
3	SPARE_PROX_IN3		
4	TOOL PRESENT OUT		
5	RS485+		
6	TX+		
7	TX-		
8	Ethernet Shield		
9	TSI IN		
10	RX+		
11	INPUT V+_SS		
12	TSIV		
13	INPUT V+_AP		
14	OUTPUT V+_AP		
15	RS485-		
16	OUTPUT V-		
17	INPUT V-		
18	RX-		
19	TOOL PRESENT IN		

NOTES: UNLESS OTHERWISE SPECIFIED.

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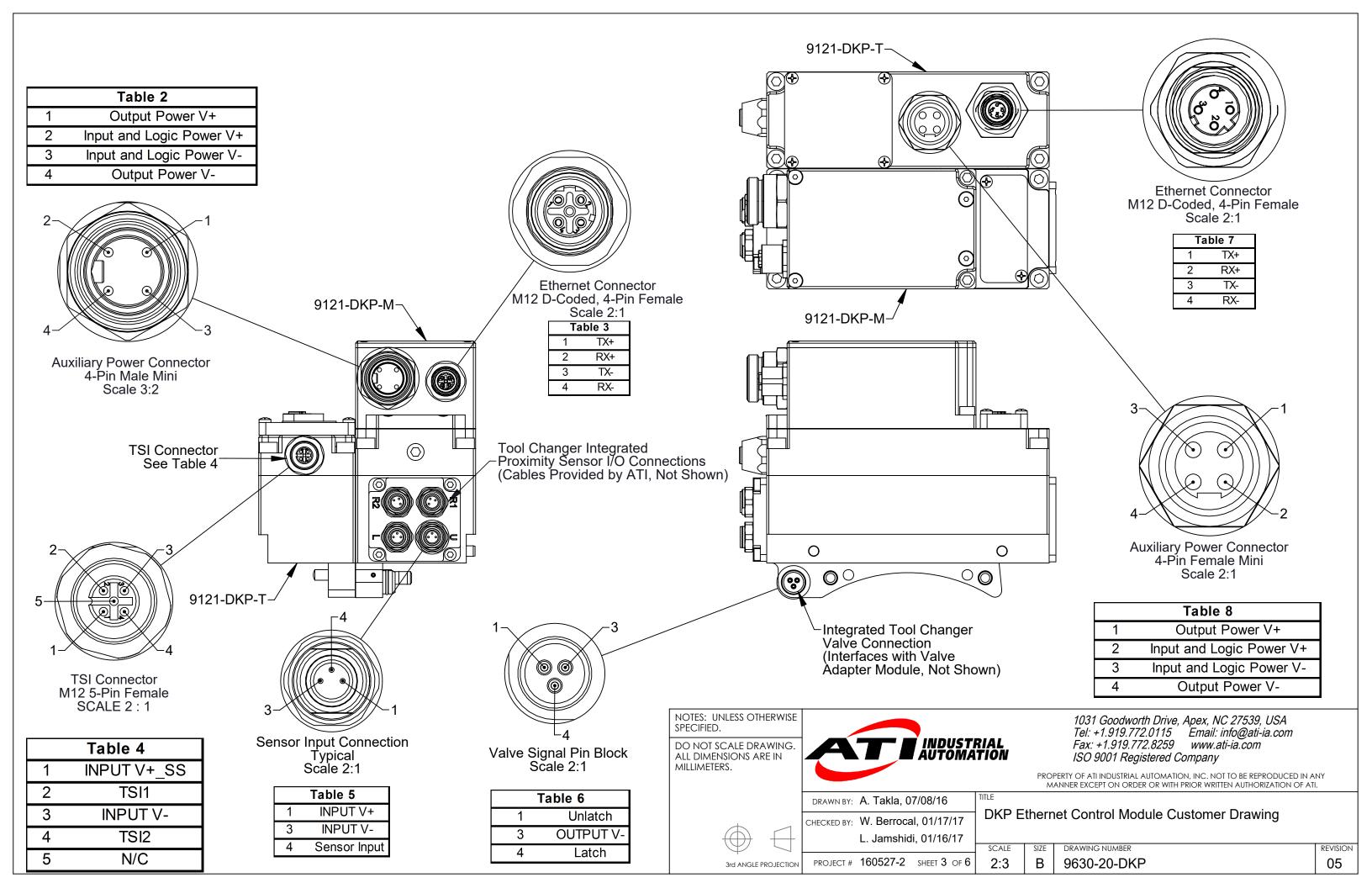
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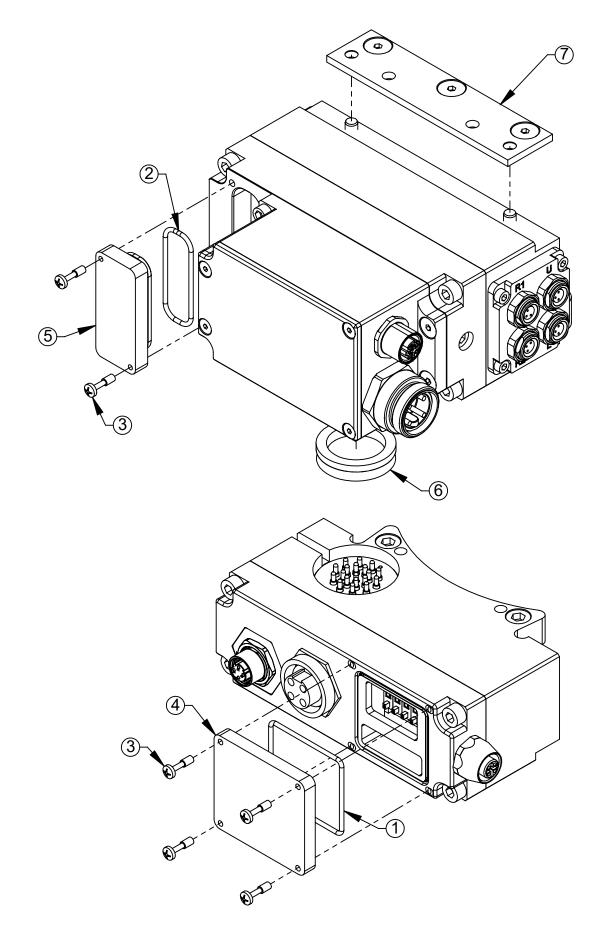
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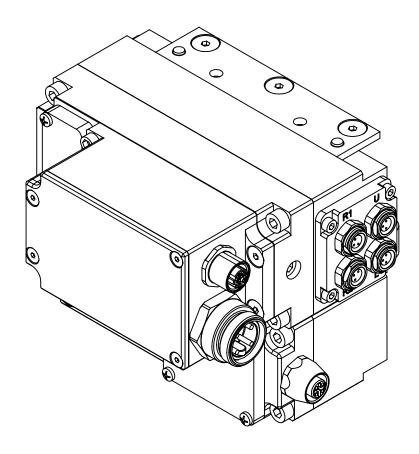
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DKP Master and Tool Serviceable Parts





ITEM NO.		_	DESCRIPTION
1	1	3410-0001021-01	, o
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	1	4010-0000030-01	V-Ring Seal
7	1	9005-20-1198	Master Cleat Assembly

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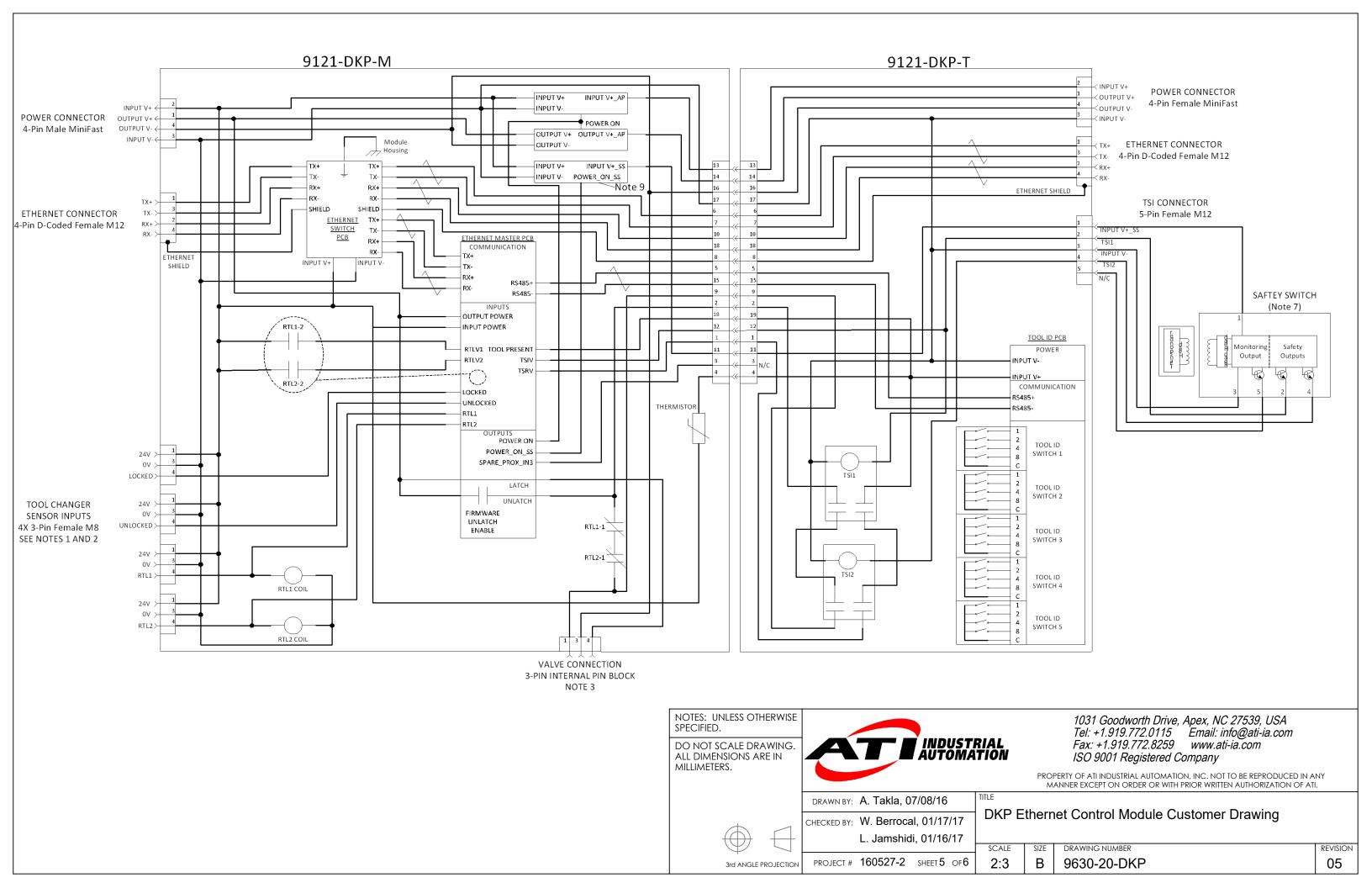
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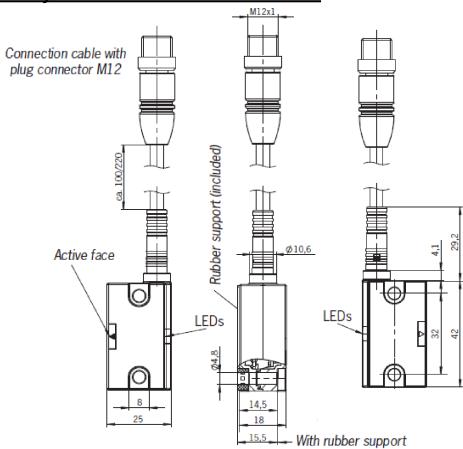
Notes:

- The sensors are powered by Input power.
- The complete tool changer package comes equipped with external cables that are connected to the sensors.
- An internal pin block is used to transmit the Latch/Unlatch signal to the valve adapter. The DKP Master is compatible with both Single and Double Solenoid Valve Adapter Modules.
- Cables for Ethernet and Auxiliary Power are supplied by the customer.
- The Tool ID I/O is reported in the DKP Master Bitmap. Refer to the product manual for more information.
- The Arc Prevention Circuit turns off Output and Input Power during coupling and uncoupling of the Tool Changer. The switching function is controlled by the POWER ON signal from the Ethernet Master PCB. The TOOL PRESENT input is used to ensure that the spring/contact pins are touching when power is turned on. Refer to the manual for additional information.
- 7. The DKP requires the use of a PLe-rated two-channel non-contact Safety Sensor for TSI functionality. The manufacturer of this Safety Sensor is Euchner, Safety Sensor Part No# CES-I-AP-M-C04-USB-117324/ATI PN# 8600-117324 and Euchner Actuator Part No # CES-A-BBN-C04-115271/ATI PN # 8605-115271. The Safety Sensor and Actuator are not included with the DKP but is available from ATI. The Safety Sensor is powered by INPUT V+ SS / INPUT V-.
- TSI related error bits are not shown on this schematic but are reported in the DKP Master Bitmap. Refer to the product manual for details.
- ARC PREVENTION BOARD-3 is used to switch the power to the TSI Safety Switches. The Switching function is controlled by the POWER ON SS from the Ethernet Master PCB Communication Board.

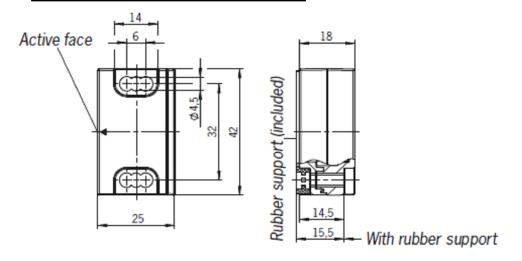


Figure 1: Euchner CES-AP-C04 Series Safety Sensor Available Separately from ATI (PN# 9120-TSL-SS-9019)

Safety Switch: ATI PN# 8600-117324



Actuator: ATI PN# 8605-115271



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