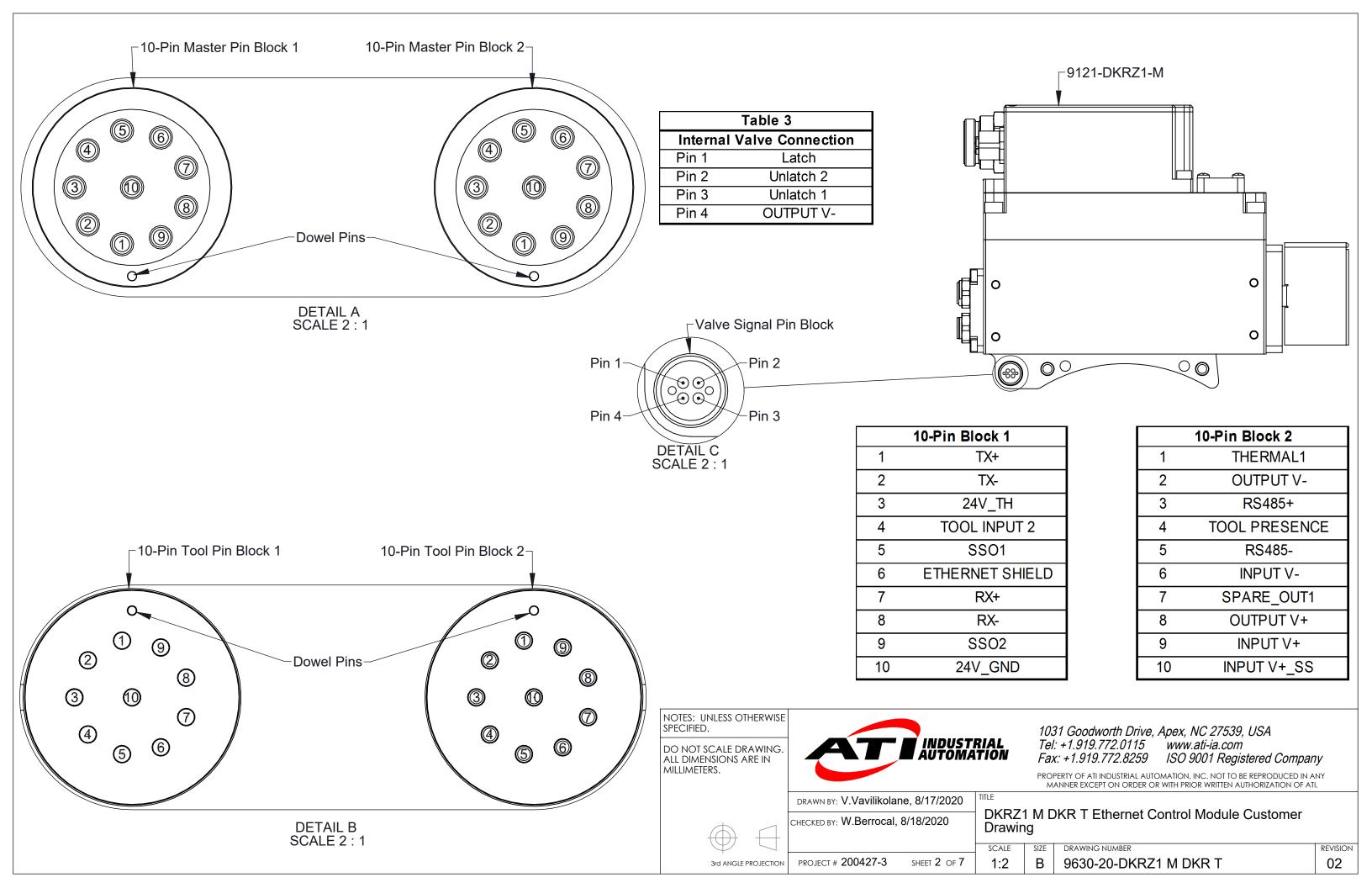
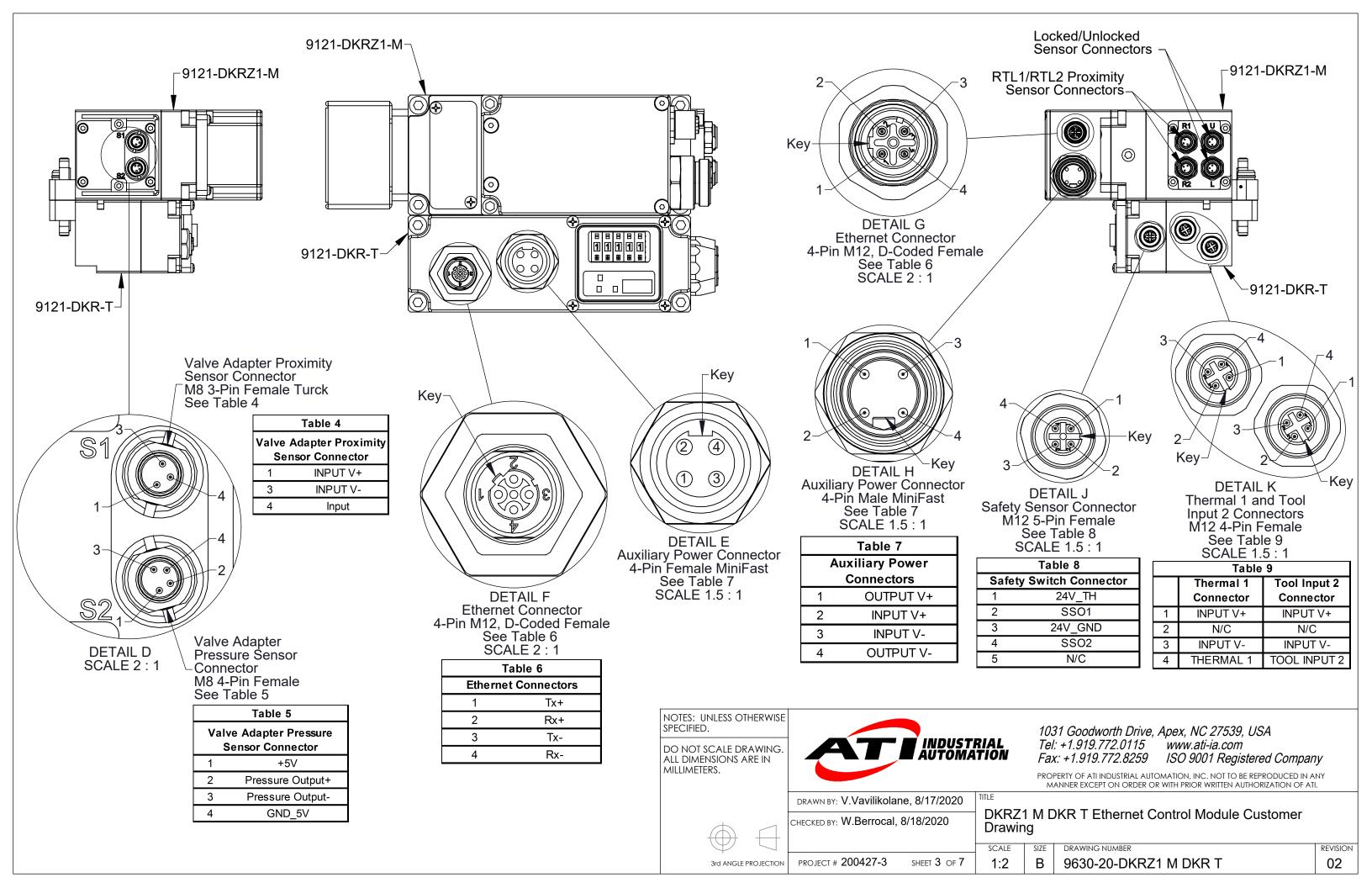


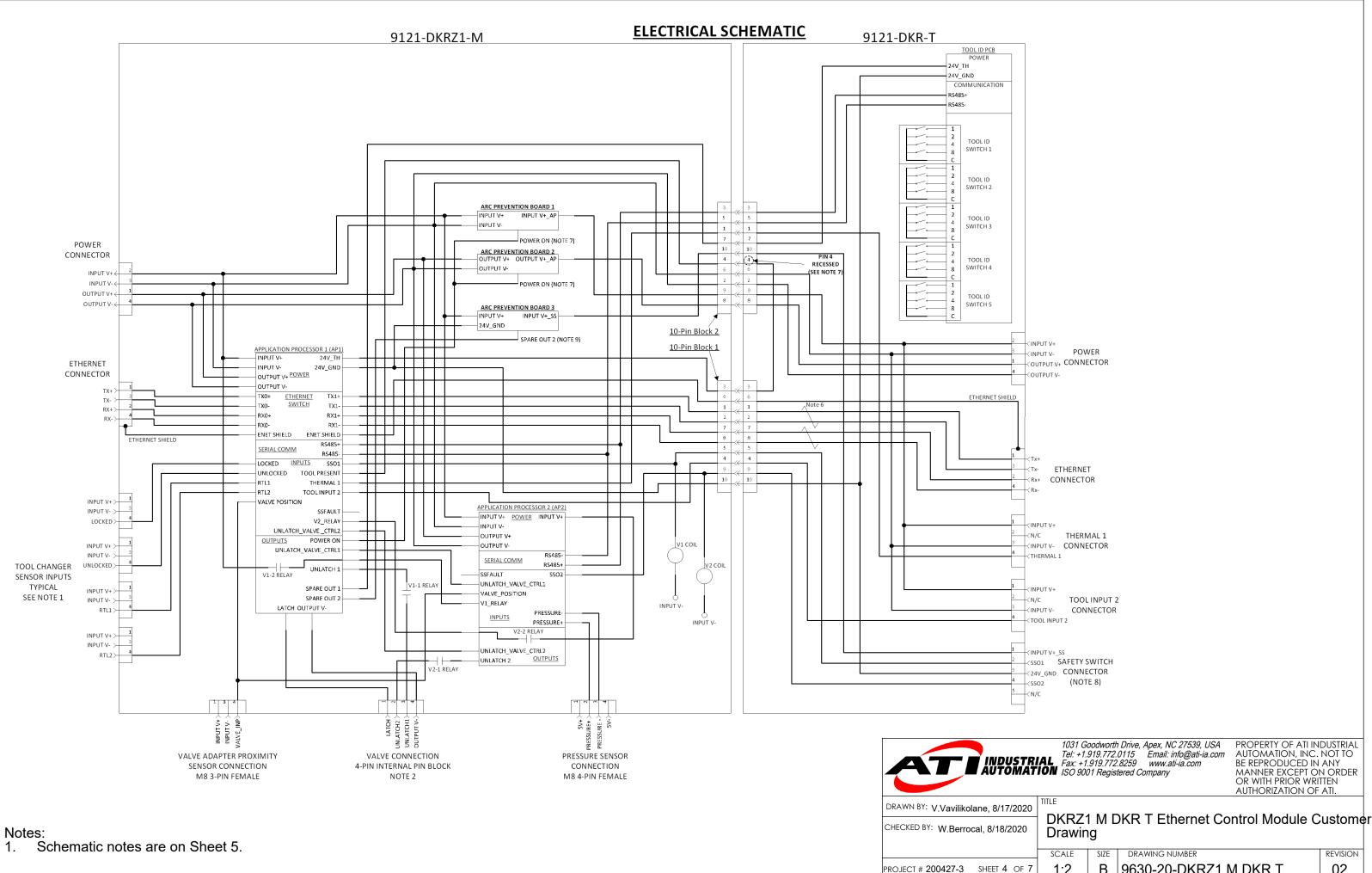
	Rev.	Description	Initiator	Date
	01P	Initial design	VV	8/17/2020
02 F		Production Release	$\vee \vee$	11/12/2020

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RZ ⁻ wir	1 M DKR T Ethernet Control Module Customer	
E	SIZE DRAWING NUMBER REVISION	

9630-20-DKRZ1 M DKR 1



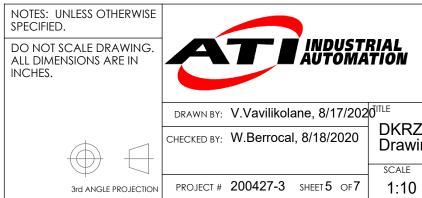




/18/2020	Drawing			
	SCALE	SIZE	DRAWING NUMBER	REVISIO
et 4 of 7	1:2	В	9630-20-DKRZ1 M DKR T	02

Schematic Notes:

- 1. The complete tool changer package comes equipped with external cables that are connected to the sensors. The DKRZ1 modules must be used with Valve Adapters employing two valves and diagnostic monitoring via pressure and proximity sensors (ex. 9121-JR4-M, 9121-JU4-M, 9121-JT7-M, etc.).
- 2. An internal pin block is used to connect the Latch/Unlatch signal to the Valve Adapter.
- 3. Power, Ethernet, and Safety Switch cables for the DKRZ1 Modules are supplied by the customer.
- 4. The Tool ID I/O is reported in the DKR Master Bitmap. Refer to the product manual for more information. The Tool ID board is powered by 24V INPUT power via the Spare 1 Output.
- 5. Note that the R1, R2, L, and U sensors are powered by INPUT Power. The common INPUT V+ and INPUT V- connections are not shown here.
- 6. The Ethernet (Tx and Rx) signals are transmitted over twisted pairs.
- 7. The Arc Prevention PCB turns off INPUT V+ and OUTPUT V+ during coupling and uncoupling of the Master and Tool. The switching function is controlled by the "Power ON" signal from Application Processor 1 (AP1). The "Tool Present" circuit is used to ensure that the spring/contact pins are touching when power is turned on. Refer to the product manual for additional information.
- 8. The DKRZ1 Module requires the use of two channel, PLe rated contactless Safety Sensors. See the notes on Sheet 6 for details regarding compatible Safety Sensors and single and series connection of the Safety Sensors.
- 9. The Arc Prevention PCB provides INPUT V+ power to the Safety Switches. The switching function is controlled by the "Spare 2" signal from Application Processor 1 (AP1).
- 10. The Valve Adapter pressure sensor is supplied with 5V (unswitched) from AP2. The pressure sensor provides an analog input to the DKRZ1.
- 11. The Valve Adapter proximity sensor is powered by INPUT Power.
- 12. The DKR module employs a dual channel safety circuit to prevent an unsafe tool unlatch. An extensive description of the safety system is provided in the DKR Operation Manual: 9620-20-C-DKRZ1 M DKR T.
- 13. The Thermal 1 and Tool Input 2 connectors are intended to interface with PNP 3-wire proximity sensors, dry contact switches, or 2-wire proximity sensors.

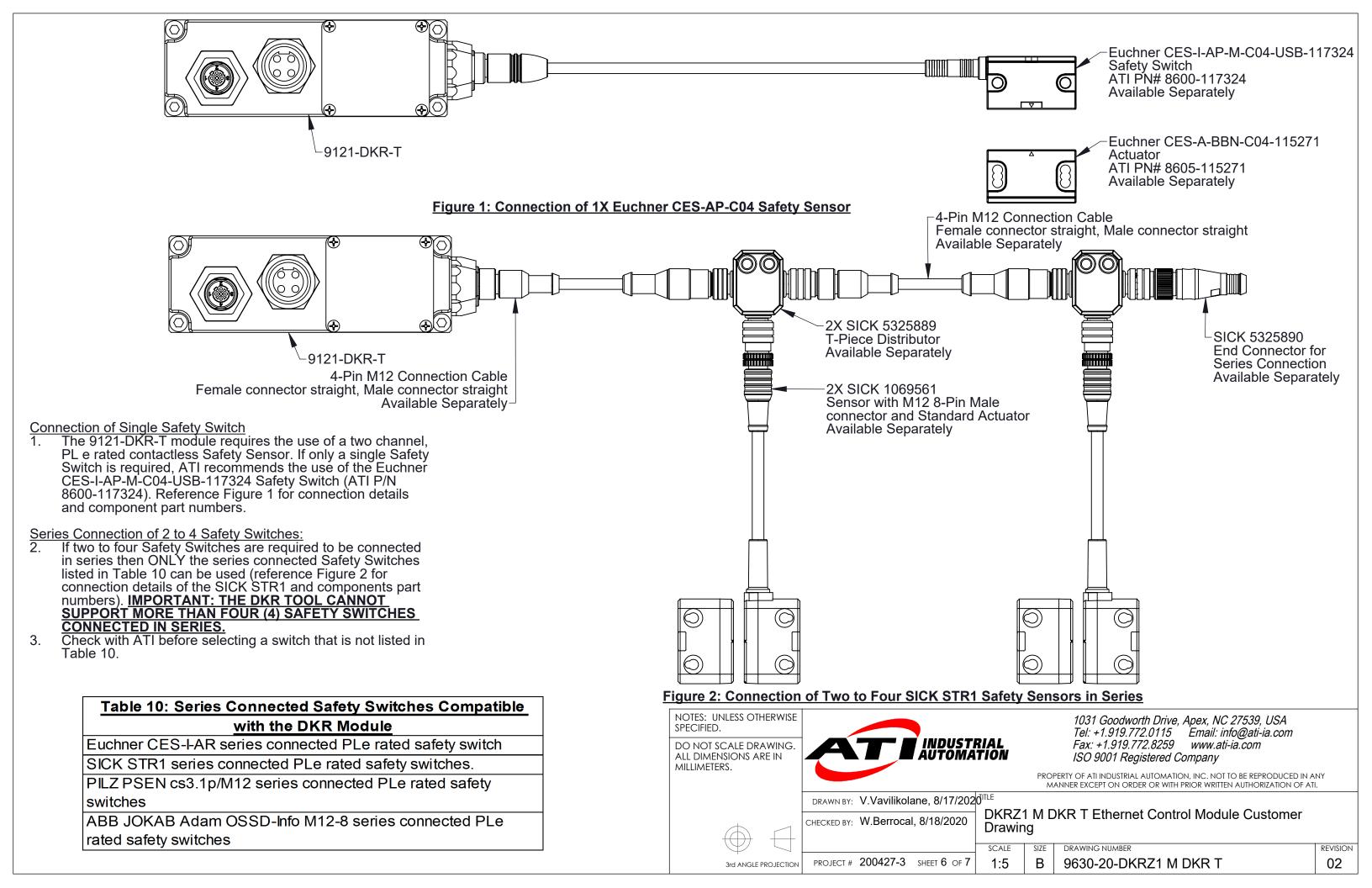


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30-20-DKRZ1 M DKR T

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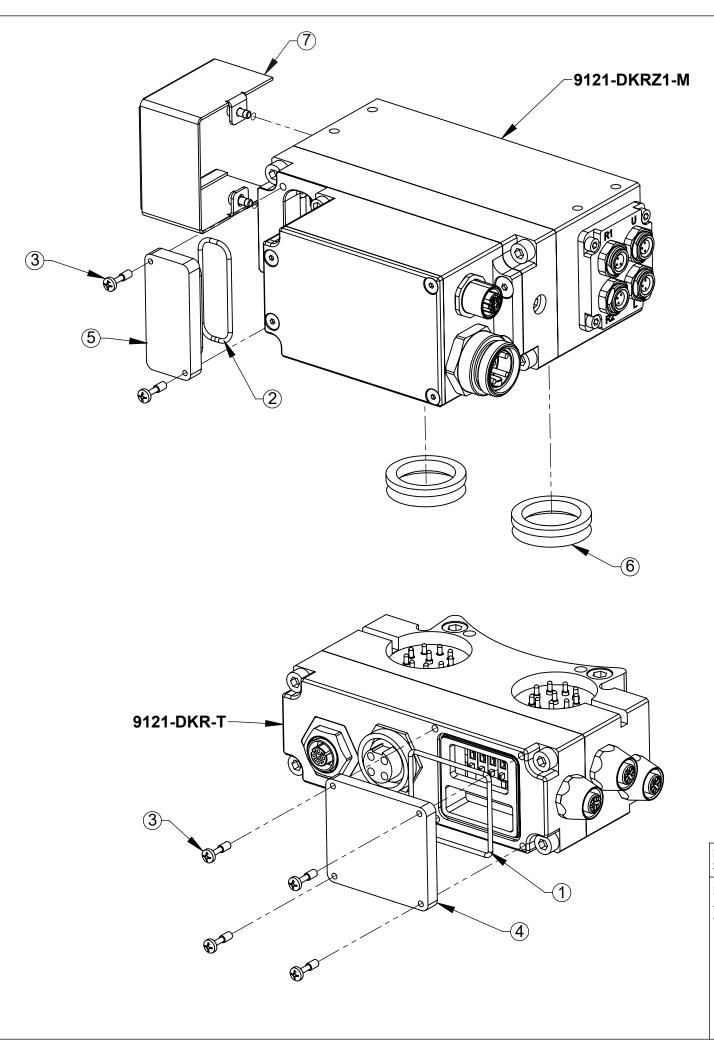


Table 11: 9121-DKRZ			
ITEM	QTY	PART NUMBER	
1	1	3410-0001021-01	
2	1	3410-0001201-01	
3	6	3500-9957012-21	Pa
4	1	3700-20-3058	
5	1	3700-20-4820	
6	2	4010-0000030-01	
7	1	9005-20-2517	Diagnos

NOTES: UNLESS OTHERWISE SPECIFIED.		
DO NOT SCALE DRAWING. ALL DIMENSIONS ARE IN MILLIMETERS.		RIAL TION
	DRAWN BY: V.Vavilikolane, 8/17/2020	TITLE
	CHECKED BY: W.Berrocal, 8/18/2020	DKRZ Drawi
		SCALE
3rd ANGLE PROJECTION	PROJECT # 200427-3 SHEET 7 OF 7	1:2

-M/T Serviceable Parts
DESCRIPTION
O-Ring AS568-031
O-Ring AS568-024
an Head M3 Captive Screw M3 X 12
Tool ID Window
Window, DJ Master, Annular Seal
V-Ring Seal V-22A Nitrile
tic Sensor Connector Guard, PLd Modules

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