

	INITIATOR	DATE
ved 9005-20-1199 Tool Cleat Assembly. Added lote.	CF	4/18/2017
		75.6
146.2 — 133.4 — 132.4 – 132.4 – 132.4 – 132.4 – 132.4 – 132.4 –	Connector	
	0.5/18.25 ee Sht. 3)	45.6
tor	(5) Push Switches	button s for Tool ID
 2) Module Status (MS) LED → 2) Network Status (NS) LED 		
<u>LV1 Tool Module</u> <u>9121-VL1-T</u>	<u>e</u>	
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1 EtherCAT Control Module Custo	omer Drawir	ng
E SIZE DRAWING NUMBER		REVISION

9630-20-VL1	04
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Initiator	Date
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Table 4				
Pin	Block 1			
1	RX1+			
2	RX1-			
3	RS485+			
4	RS485-			
5	TSI IN			
6	TSRV			
7	TX1+			
8	TX1-			
9	TSI OUT			
10	TSIV			

PROJECT # 140728-5 SHEET 2 OF 5

3rd ANGLE PROJECTION

Table 5				
Pin Block 2				
1	US1+			
2	TOOL_PRESENT			
3	US1-			
4	US2-			
5	FE			
6	US2+			
7	24V_TH			

SCALE	SIZE	DRAWING NUMBER	REVISION
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Rev	2. Description	Initiator	Date
-	See Sheet1	-	-
round Te Threade accesse ainless st	erminal Connection d hole, 9mm Deep ed by removing M5 eel set screw plug.	Initiator	-T
	1031 Goodworth Drive, Apex, NC 2753	9, USA	
	Tel: +1.919.772.0115 Email: info@at Fax: +1.919.772.8259 www.ati-ia.con ISO 9001 Registered Company	ii-ia.com n	
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1 EtherC/	AT Control Module Customer Dr	rawing	
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		MRER	DESCRIPTION		
1 1	3410-000	1021-01	O-ring, AS568-031		
2 1	3410-000	1201-01	O-ring, AS568-024		
3 6	3500-995	7012-21	Captive Screw M3 x 12 Slot	ted Head	SS
4 1	3700-20-3	058	Tool ID Window		
5 1	3700-20-4	820	Window, Master, DJ Module	, Annula	r Seal
6 <u>2</u> 7 1	4010-000	<u>198</u>	V-KING Seal Master Cleat Assembly		
' 1	0000-20-1	100	A21 Conducth Drive Anex NO 2752	2 1164	
		70 70	el: +1.919.772.0115 Email: info@at	i-ia.com	
	TRIAL	F	ax: +1.919.772.8259 www.ati-ia.com	n	
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ECKED BY: W. Berrocal, 09/05/14	. VL1	EtherCAT	Control Module Customer D	rawing	
A. Strotzer, 09/09/14					DEVISION

		Rev.		Description	Initiator	Date
		_		See Sheet1		-
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		PART NU				
		3410-000	1021-0	U-ring, AS568-031		
	2 1	3410-000	1201-0	1 O-ring, AS568-024		
	3 6	3500-995	<u>57012-2</u>	1 Captive Screw M3 x 12 Slo	tted Head	SS
	4 1	<u>3700-20</u> -	3058	Tool ID Window		
	5 1	3700-20-4	4820	Window, Master, DJ Modul	e, Annula	r Seal
	6 2	<u>4010-000</u>	00030-0	1 V-Ring Seal		
	7 1	9005-20-	1198	Master Cleat Assembly		
NOTES: UNLESS OTHERWISE				1031 Goodworth Drive Anex NC 275	3.9 [].SA	
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	DRAWN BY: M. Hallmark, 09/03/14	IIILE				
	CHECKED BY: W. Berrocal, 09/05/14	VL1	EtherC	AT Control Module Customer [Drawing	
	A Strotzer 09/09/14				Ŭ	
$\Psi \cup$		SCALE	SIZE	DRAWING NUMBER		REVISION
3rd ANGLE PROJECTION	PROJECT # 140728-5 SHEET 4 OF	5 2:3	B 9	9630-20-VL1		04

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В	9630-20-VL1	



Rev.		Description	Initiator	Date	
-		See Sheet1	-	-	
AUX. POWER CONNECTOR TURCK RKFL 56	Sc 1. 2. 3. 4. 5.	hematic Notes: Note that the sensors are powered by US1 power (US1+). The complete tool changer package comes external cables that are connected to the se Cables for EtherCAT and Auxiliary Power to Modules are supplied by the user. The Tool ID I/O is reported in the VL1 Master to the product manual for more information. The Arc Prevention Circuits turn off US1+ a coupling and uncoupling of the Master and	Unswitche equipped insors.) the VL1 er Bitmap. nd US2+ Tool. The	ed with . Refer during	
ETHERCAT CONNECTOR TURCK FKDD 44	 Switching function is controlled by the "POWER ON" signa from the main PC Board. 6. The "TOOL PRESENT" signal is transmitted through a recessed pin in the Tool side Pin Block. This ensures that of the spring probes and contact pins are touching when power is turned on. Refer to the product manual for additional information. 7. The EtherCAT connector shell, FE, and FE Ground Terminals are connected to the module housing (i.e. Chas 				
THERCAT DNNECTOR HELL E GROUND	8. 9.	The current rating of spring probes on the 7 maximum. The spring probes on the 10-Pin to 3A maximum. The 9121-VL1-T module supports the use of limit switch for integration with TSI. The limit connected to the TSI connector must have a contacts (double-pole, single-throw). A limit available from ATI (p/n 9005-20-1165) but is	-Pin Block Block are of a mecha t switch two sets o switch is s not inclu	is 15A rated anical f N.O. ded	
 With the VL1 modules. Contact A IT for specific switch requirements. 10. An internal pin block is used to connect the Latch/Unlat signal to the Valve Adapter, as shown in the schematic 					

E	SIZE	DRAWING NUMBER	REVISION
1	В	9630-20-VL1	04