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VB2-M

Master Side

(MS3102E28-12P)

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OTOC

W_O O_F

VB2 Master with VB3 Tool (0-9 Tool ID)

Rev.	Description	Initiator	Date
÷	See Sheet1	-	-

VB2 to VB3 Pin Out

VB2 Master VB3 Tool
MS3102E28-12P MS3102E22-14S
Male Connector Female Connector

0 VDC Reference	A>>	A	0 VDC Reference
+24 VDC	B>>	B	+24 VDC
available	Č>>	C	avaitable
available	D>>	D	available
available	E>>	E	available
available	F>>	F	available
available	G>>-	G	available
available	H>>	H	available
available	J>>	J	available
available	K>>	K	available
available	L>>	L	available
available	M>>	M	available
Tool ID, Bit Value 8	N>> [, N	not available
Tool ID, Bit Value 4	P>> }	Tool ID P	not available
Tool ID, Bit Value 2	R>> }	Switch R	not available
Tool ID, Bit Value 1	\$>> Ł	s	not available
not available	Т	Т	not available
not available	U	U	not available
not available	V	V	not available
Lock O/P	W		
Unlock O/P	X		TSI Connector
RTLV I/P	Υ		4-Pin Eurofast Femal
RTL #1 I/P	Z	4	N/C
RTL #2 I/P	а	3	TSI Out
Lock I/P	b	2	TSI In

Unlock I/P

 Pin "A" on the MS connector is First-to-Mate Last-to-Break at the tool changer interface. This pin is recommended for use as 0 VDC / ground reference.

3rd ANGLE PROJECTION

- The common for Tool ID is tied into the 24VDC line (Pin B).
 The Tool ID switches are Rated for service at 50V and 100 mA max.
 Refer to the Tool ID table for switch setup information.
- 3. Large views of connectors are 1.5:1 scale.

(MS3102E22-14S) A N M L B Ø Ø Ø F C Ø Ø Ø Ø Ø T P Ø Ø Ø Ø T D V E R F S G

VB3-T

Tool Side

		Controller Outputs		
	1			
Pin:	Signal:	Description:		
Α	0 VDC	Voltage Reference		
В	24 VDC	Voltage Supply		
Χ	24 VDC	Unlock Solenoid Supply		
₩	24 VDC	Lock Solenoid Supply (Double Solenoid)		
		Controller Inputs		
Pin:	Signal:	Description:		
Ν	Tool ID	Bit Value 8 (See Table)		
P	Tool ID	Bit Value 4 (See Table)		
R	Tool ID	Bit Value 2 (See Table)		
S	Tool ID	Bit Value 1 (See Table)		
Υ	RTLV	RTL Verify Input		
Z	RTL#1	Ready-To-Lock Input #1		
а	RTL#2	Ready-To-Lock Input #2		
b	Lock	Tool Changer Lock Input		
d	Unlock	Tool Changer Unlock Input		

1031 Goodworth Drive, Apex, NC 27539, USA

ISO 9001 Registered Company

Tool Stand Interlock (TSI) Operation:

TSI Connector

VB2 Tool Side

(1510-2323001-04)

1. A hard-wired break in the Valve Unlock Output is provided on the tool module via the 4-pin Eurofast connector. It is suggested that the customer integrate a single throw, double pole (NO, spring return) limit switch to work with this feature. 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.

Tool ID Output

0

0

0

0

0

Pin

0

0

0

0

0

Pin

"S"

0

0

0

0

0

Pin

"N"

0

0

0

0

0

0

0

0

Switch 1

6

- The RTL sensor is very important to this TSI feature and therefore should be monitored for failure. RTLV Input is available for fault monitoring of this circuit. Please consult the product manual for operation and fault monitoring suggestions.
- 3. Limit switches, trip dogs and cabling are also available from ATI.



N/C