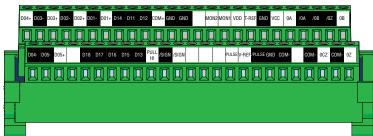
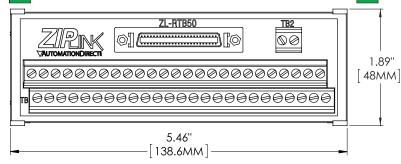


Feedthrough Connector Module Installation Instructions

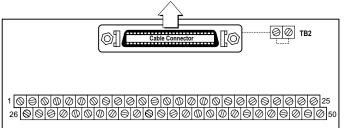
ZL-RTB50





To SureServo drive CN1 Connector.

Use ZL-SVC-CBL-50 (-1, -2) cable.



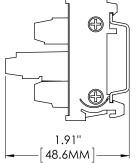
NOTE: TB2 is internally connected to the shield drain wire and should be field connected to earth ground.

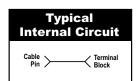
ZL-RTB50 Specifications				
Description*	50-Pole Connector Module for interfacing SureServo			
Approvals	File # E200031 UL, cUL, Class 1, Division 2, Groups A,B,C,D Hazardous Locations, CE, EN 61131-2:2007			
Operation Voltage **	0-30 VDC			
Voltage Rating	24VDC			
Maximum Current per Circuit	num Current per Circuit 0.2 A			
Maximum Current per Module	ent per Module 10A			
Number of Terminal Block Positions	50			
Surrounding Temperature Range	32 to 140°F (0 to 60°C)			
Terminal Block Contacts	Copper alloy, tin-lead plated			
Wire Range (Rated Cross Section)**	12-24AWG Solid or Stranded Copper Conductor (2.5mm²)			
Wire Strip Length	0.24-0.27" (6-7mm)			
Screw Torque	4.4 in-lbs (0.5 Nm)			
Connector Type	3M mini DELTA Ribbon (MDR), 101 Series, 50 pin Example: Plug 10150 - 3000VE, Shell 10350 - 52A0 - 008			
Dimensions (WxHxD)	5.46" x 1.89" x 1.87" (138.6mm x 48.1mm x 47.5mm)			
Connecting Cable (Sold separately)	ZL-SVC-CBL50 (0.5m/1.6ft) ZL-SVC-CBL50-1 (1m/3.3ft) ZL-SVC-CBL50-2 (2m/6.6ft)			
Cable/Wire Cleareance	4.00" (101.6mm) top and bottom			
Mounting Restrictions	None			

^{*}Connecting cables are for internal wiring only.

CAUTION: All unmarked terminals should be left unconnected (no connection). The unmarked terminals are used internally by the servo drive and connecting externally could cause damage to the servo drive.

Go to http://www.automationdirect.com/ sureservomanual.html to download the complete Servo drive information.





Note: ZL-RTB50 pinouts are straight through from pin to terminal. For example, Connector Pin 1 = Terminal 1, Connector Pin 2 = Terminal 2, etc.

R	ZL-RTB50 TB1 Pinouts			
ROW	Pin Number Terminal ID		Description	
	1	D04+	Digital Output	
	2	D03-	Digital Output	
	3	D03+	Digital Output	
	4	D02-	Digital Output	
	5	D02+	Digital Output	
	6	D01-	Digital Output	
	7	D01+	Digital Output	
	8	DI4	Digital Input	
т	9	DI1	Digital Input	
T 0 P	10	DI2	Digital Input	
Ū	11	COM+	Power Common DI & DO	
P	12	GND	Power VCC Ground AI	
	13	GND	Power VCC Ground AI	
P	14	NC	No Connection	
R O W	15	MON2	Analog Monitor Output 2	
U	16	MON1	Analog Monitor Output 1	
W	17	VDD	Power 24V Source	
	18	T REF	Analog Torque Input	
	19	GND	Power VCC Ground Al	
	20	VCC	Power 12V Source	
	21	OA	Position Pulse A Output	
	22	/0A	Position Pulse /A Output	
	23	/OB	Position Pulse /B Output	
	24	/0Z	Position Pulse /Z Output	
	25	OB	Position Pulse B Output	
	26	D04-	Digital Output	
	27	D05-	Digital Output	
	28	D05+	Digital Output	
	29	NC	No Connection	
	30	DI8	Digital Input	
	31	DI7	Digital Input	
В	32	DI6	Digital Input	
Б	33	DI5	Digital Input	
O		DI3	Digital Input	
Т	34		· ·	
BOTTOM	<i>35</i>	PULL HI	Position Pulse Input	
Ċ	<i>36</i>	/SIGN	Position Pulse Input	
	<i>37</i> <i>38</i>	SIGN NC	Position Pulse Input No Connection	
IVI	39	NC	No Connection	
	40	NC	No Connection	
R 41 PULSE Position Pulse Input				
R	42	V_REF	REF Analog Velocity Input	
VAL	43	/PULSE		
VV	44	GND	Power VCC Ground Al	
	45	COM-	Power VDD Ground DI & DO	
	46	NC	No Connection	
	47	COM-	Power VDD Ground DI & DO	
	48	OCZ	Encoder Z Pulse Open Collector Outpu	
	49	COM-	Power VDD Ground DI & DO	
	50	0Z	Encoder Z Pulse Line Driver Output	

^{**}Use Class 2 power supply. Use conductors rated 60°/75°C.

Description

The ZL-RTB50 is a DIN rail mounted feed through module designed to interface the SureServo servo drive analog and discrete control signals to a PLC or other controllers by connecting the ZL-SVC-CBL50 cable between the SureServo CN1 connector and the ZL-RTB50 connector.

Cables

The ZL-SVC-CBL50 is available in three lengths.

- ZL-SVC-CBL50 0.5m (1.6ft)
- ZL-SVC-CBL50-1 1m (3.3ft)
- ZL-SVC-CBL50-2 2m (6.6ft)



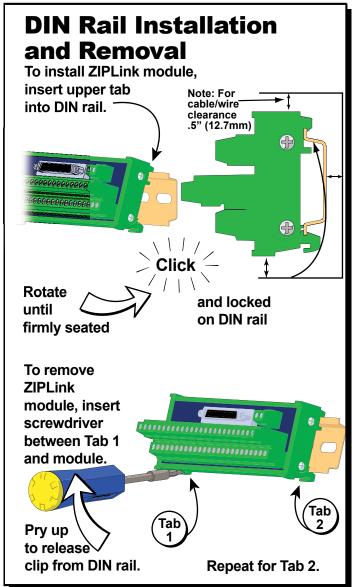
HAZARD WARNING

A. THIS EQUIPMENT IS SUITABLE FOR USE IN CLASS I, DIVISION 2/ ZONE 2, GROUPS A, B, C AND D OR NON-HAZARDOUS LOCATIONS ONLY.

B. WARNING - EXPLOSION HAZARD - SUBSTITUTION OF COMPONENTS MAY IMPAIR SUITABILITY FOR CLASS I, DIVISION 2/ZONE 2.

C. WARNING - EXPLOSION HAZARD - DO NOT CONNECT OR DIS-CONNECT CONNECTORS OR OPERATE SWITCHES WHILE CIRCUIT IS LIVE UNLESS THE AREA IS KNOWN TO BE NON-HAZARDOUS.

D. ALL MODULES USED WITH ACCESSORIES MUST USE R/C (ECBT2) MATING PLUG FOR ALL APPLICABLE MODELS. ALL MATING PLUGS SHALL HAVE SUITABLE RATINGS FOR DEVICE.



WARNING: To minimize the risk of potential safety problems, you should follow all applicable local and national codes that regulate the installation and operation of your equipment. These codes vary from area to area and it is your responsibility to determine which codes should be followed, and to verify that the equipment, installation, and operation are in compliance with the latest revision of these codes.

Equipment damage or serious injury to personnel can result from the failure to follow all applicable codes and standards. We do not guarantee the products described in this publication are suitable for your particular application, nor do we assume any responsibility for your product design, installation, or operation.

If you have any questions concerning the installation or operation of this equipment, or if you need additional information, please call Technical Support at 770-844-4200.

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Part Number	Revision	Date
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