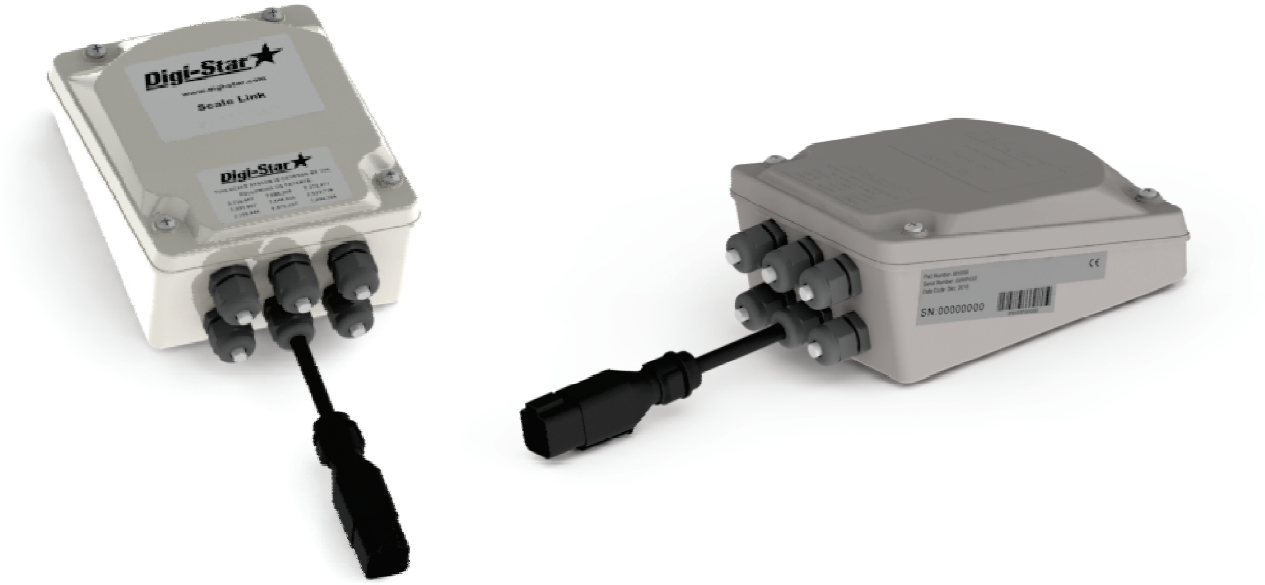
SL100 Series Scale Link™
Installation Manual



Digi-Star
Ft. Atkinson, Wisconsin USA

Digi-Star Europe
Panningen, The Netherlands
www.digi-star.com

D3933-US Rev A

March 29, 2012

INTRODUCTION

Thank you for purchasing a Scale Link™ product. This installation manual describes the steps necessary to install the Scale Link™ and available cabling and connector configurations. Scale Link™ works with several types of user displays such as Scale Link Control™, Virtual Terminal (ISO models ONLY) and Scale Link Touch™ (SLT 7600). Separate manuals describe the use and installation of the displays.

SAFETY DURING USE

⚠ CAUTION

Failure to install this system properly could result in equipment damage. Please read this document thoroughly before starting up the system.

⚠ CAUTION

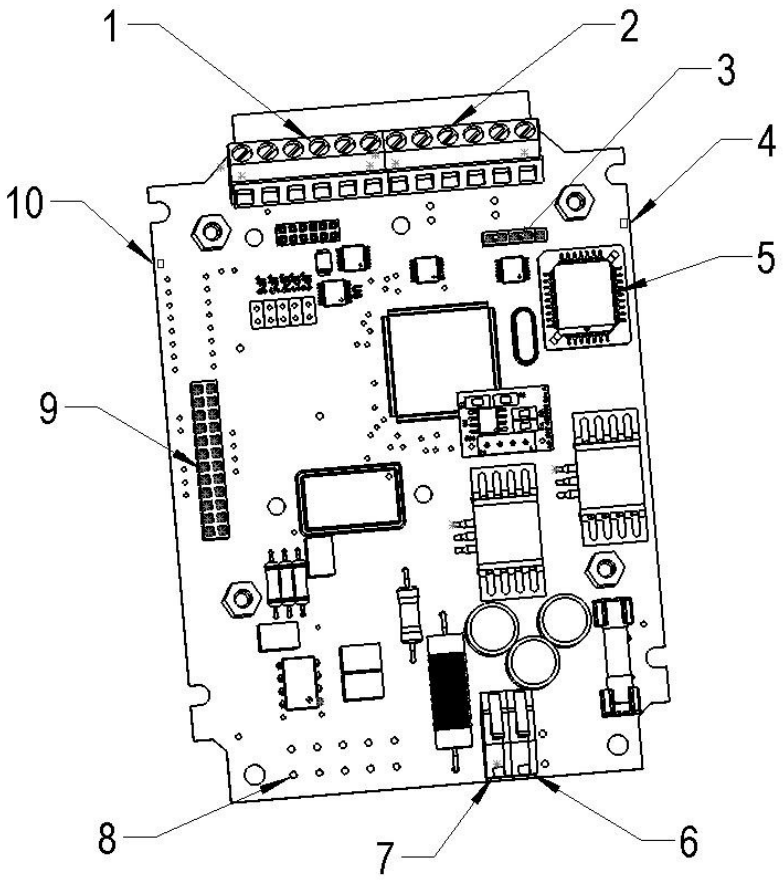
Cap all unused connectors when not in use or corrosion and intermittent connections may occur.

⚠ CAUTION

Disconnect all Scale Link Connections before charging battery or welding. Damage may occur to Scale Link™ and Load Cells.

SL100 SERIES SCALE LINK FEATURES

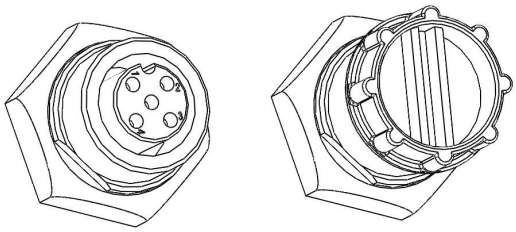
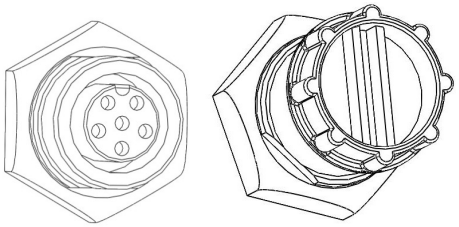
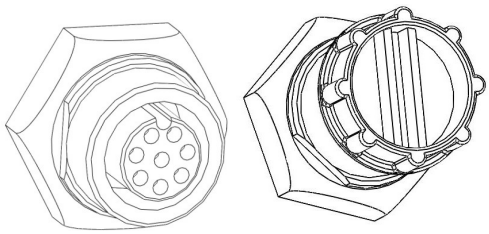
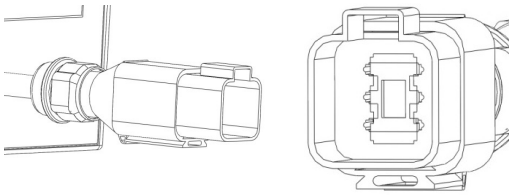
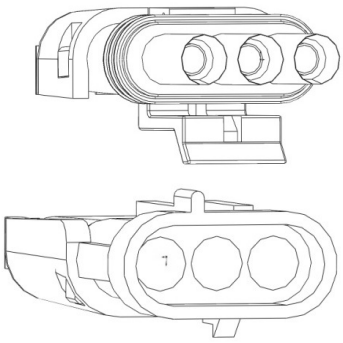
Figure 1. SL100 Series Main Board



1. TB2: Communications (ISOBUS, CAN, Serial, Touch Screen)
2. TB1: SLC / Remote
3. Program Memory Jumpers
4. Power LED
5. Program Memory
6. GROUND Terminal
7. POWER (12V) Terminal
8. Main Board Load Cell Connections
9. Expansion Header
10. Data LED

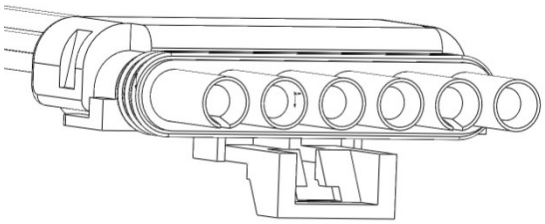
STANDARD CONNECTORS

Table 1: Standard Connectors

NAME	FUNCTION	IMAGE
M12-5 Pin	Load Cell connector for all Digi-Star Load Cells	 Un-Capped Capped
M12-6 Pin	Serial Data Communication	
M12-8 Pin	Scale Link Control™ (SLC 2400V, SLC 2500V)	
Deutsch DT6	ISOBUS/CAN	
Weatherpack 3	Scale Link™ Power	

ALTERNATE CONNECTORS

Table 2: Alternate Connectors

NAME	FUNCTION	IMAGE
Weatherpack 6	Power and Communication	

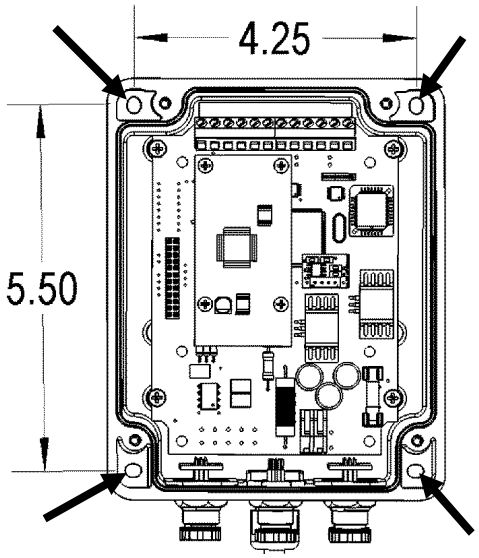
INSTALLATION

Mounting

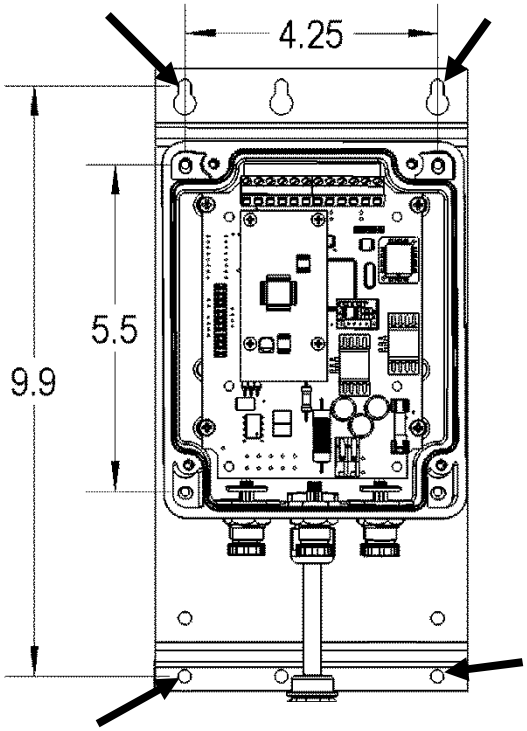
- Using the washers supplied with this product, mount the Scale Link™ as shown in Option 1 or Option 2.

Figure 2. Scale Link™ Mounting

Option 1. Directly to Implement



Option 2. Bracket (PN: 146072)



⚠ CAUTION

If connecting Scale Link ™ to a different brand of Load Cells, color schemes and functions may not match.

Load Cell Setup

If you have:

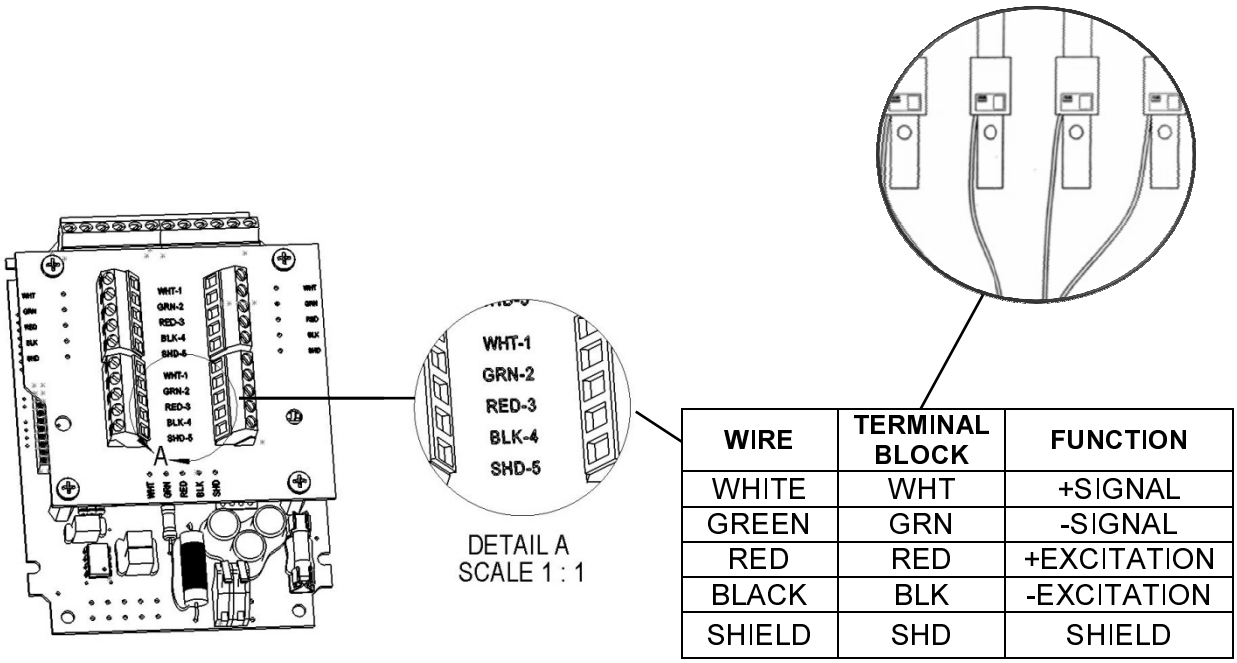
M12-5 Pin connectors on the Scale Link™ and Load Cells:

- Plug in Load Cells directly to bottom of Scale Link™.

No Load Cell connectors on Scale Link™ and bare leads on Load Cells:

- Install cables through strain reliefs and wire Load Cells to Scale Link™ terminal block as shown in Figure 3.

Figure 3. Wiring Load Cells Directly to Scale Link



WIRE	TERMINAL BLOCK	FUNCTION
WHITE	WHT	+SIGNAL
GREEN	GRN	-SIGNAL
RED	RED	+EXCITATION
BLACK	BLK	-EXCITATION
SHIELD	SHD	SHIELD

Display

- Determine which connector is used with your display. See Table 1 or Table 2 for connector options.
- Connect display connector to mating connector on Scale Link™.
- Refer to Wiring Reference Information for more detail on connecting to a display.
- Connect Scale Link™ to 12VDC power source.

WIRING REFERENCE INFORMATION

(Refer to Figure 4)

POWER TERMINALS

Table 3: Power Terminal Wiring

WIRE COLOR	FUNCTION (See Figure 1)
BLACK	GROUND
RED	POWER (12V)

SERIAL (PRINTER, TOUCH SCREEN, OTHER SERIAL ENABLED DEVICES)

Table 4: Printer and other Serial Device Wiring (Including SLT 7600 / Touch Screen)

FUNCTION	MAIN PCB DESIGNATOR	TERMINAL BLOCK
GND	GND	TB1-1 OR TB2-1
Data In (Rx)	IN	TB2-4
Data Out (Tx)	PRN	TB2-5
+12V	12V	TB1-6

SCALE LINK CONTROL™ (SLC 2400V, SLC 2500V)

Table 5: Scale Link Control™ Wiring

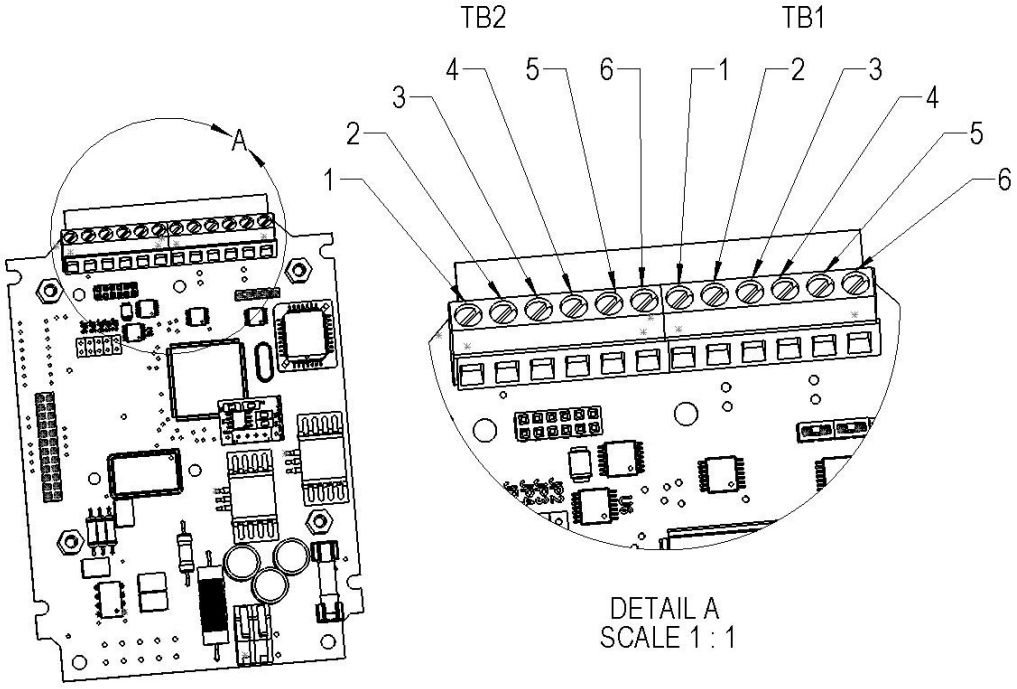
PIN	WIRE COLOR	MAIN PCB DESIGNATOR	TERMINAL BLOCK
1	WHITE	12V	TB1-6
2	BROWN	12V	TB1-6
3	GREEN	RMZ	TB1-5
4	YELLOW	OUT	TB1-2
5	GRAY	CLK	TB1-3
6	PINK	IN	TB1-4
7	BLUE	GND	TB1-1 OR TB2-1
8	RED	GND	TB1-1 OR TB2-1

ISOBUS/CAN (ISO MODELS ONLY)

Table 6: ISOBUS/CAN Wiring

PIN	WIRE COLOR	MAIN PCB DESIGNATOR	TERMINAL BLOCK
1	RED	12V	TB1-6
3	BLACK	GND	TB2-1 OR TB1-1
2	WHITE	CAN-H	TB2-3
4	GREEN	CAN-L	TB2-2

Figure 4. Main PCB Terminal Block Designators



TB2: ISOBUS, CAN, SERIAL, TOUCH SCREEN

1. GND
2. CAN-L
3. CAN-H
4. IN
5. PRN
6. SCB

TB1: SCALE LINK CONTROL™, REMOTE

1. GND
2. OUT
3. CLK
4. IN
5. RMZ
6. 12V