CSI CONTROLS® SLX™ SUBMERSIBLE LEVEL TRANSMITTER **INSTALLATION INSTRUCTIONS**

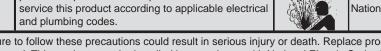
ELECTRICAL SHOCK HAZARD

Disconnect power before installing or servicing this product. A qualified service person must install and and plumbing codes.



EXPLOSION OR FIRE HAZARD

Do not use this product with flammable liquids. Do not install in hazardous locations as defined by National Electrical Code, ANSI/NFPA 70.



Failure to follow these precautions could result in serious injury or death. Replace product immediately if cable becomes damaged or severed. This product must be installed in accordance with National Electric Code, ANSI/NFPA 70 so as to prevent moisture from entering or accumulating within boxes, conduit bodies, fittings, or cable. Keep these instructions after installation.

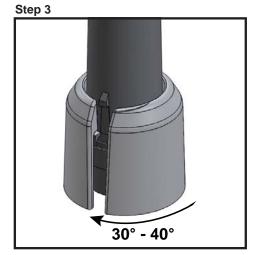
IMPORTANT INFORMATION

- Applications: sewage and effluent lift stations, stormwater pump stations, non-potable water systems, tanks, wet wells, and reservoirs.
- CSI Controls® recommends the use of a desiccant filter or bellows to protect against moisture entering the vent tube.
- Do not bend cable to a radius smaller than 1.5 inches (38 mm) to avoid kinking the vent tube.
- When installing, lower the transmitter slowly and avoid impact with objects in the wet well.
- Do not press against the transmitter diaphragm with a sharp object.

STABILIZING WEIGHT

Each SLX™ is provided with a removable stabilizing weight. The stabilizing weight must be attached to the transmitter housing prior to installation. Hand tightening is adequate.









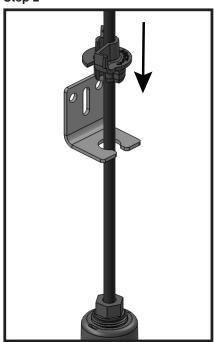
MOUNTING BRACKET

The SLX™ Transmitter is supplied with a stainless steel mounting bracket and a strain relief cord grip.

Step 1



Step 2



Step 3



Step 4



Step 5 (option 1)



Step 5 (option 2)

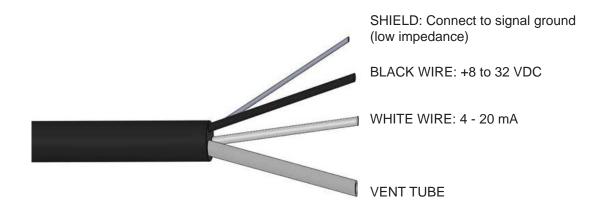


INSTALLATION

- 1. **Anchoring:** Install the SLX[™] in a stilling well when possible, to prevent damage from impact. It is acceptable to suspend the transmitter without a protective stilling well provided extra care is taken to prevent damage to the transmitter and cable. Do not mount the transmitter to a pump or piping.
- 2. **Submersion:** Damage to the cable will lead to failure of the transmitter. The SLX[™] cable has a rugged jacket material to minimize the risk of cuts and abrasions. Carefully lower your transmitter into the well, make sure the cable does not contact sharp edges. Do not drop the transmitter.
- 3. **Condensation Protection:** The size of the vent tube is designed to minimize the intrusion of water vapor when the cable is terminated inside a clean and dry control panel. In areas of high humidity, use a drying tube (desiccant) or bellows to prevent water vapor from entering the vent tube. Contact CSI Controls® for ordering information. Never terminate the transmitter cable in a junction box in the wet well.
- 4. **Cable:** The SLX[™] cable is flexible; however, the vent tube inside the cable must not be kinked during installation. Do not bend cable to a radius smaller than 1.5 inches (38 mm). If a liquid tight cord grip is used with the transmitter cable, do not over tighten. This may cause damage to the cable and restrict the vent tube.
- 5. **Mounting position:** The SLX[™] must be installed in a vertical position with cable on top.

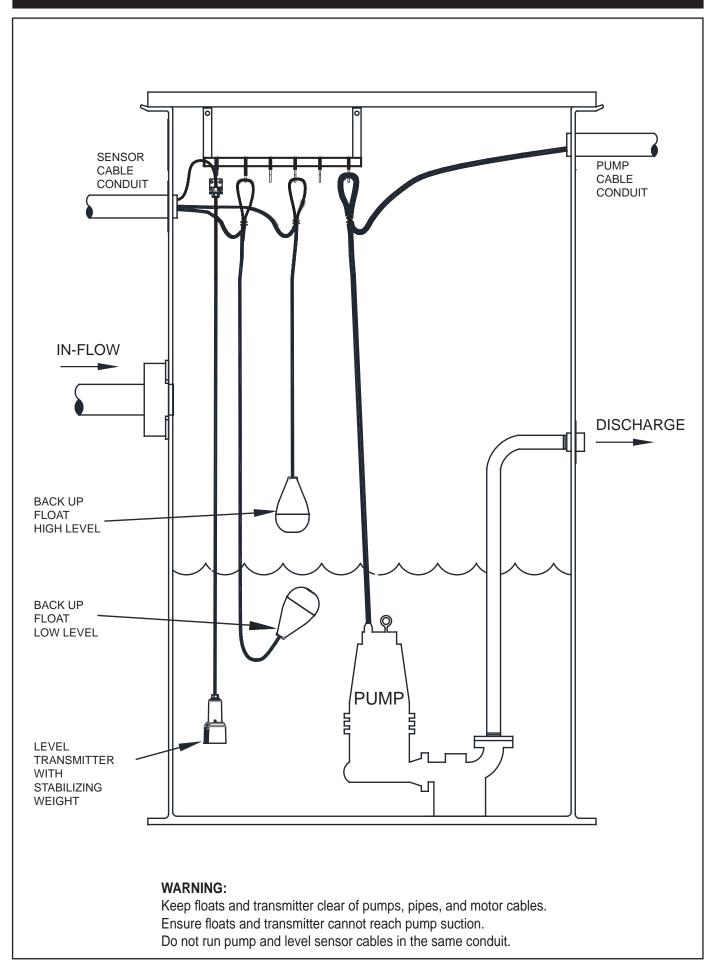
ELECTRICAL CONNECTION

The SLX[™] is a loop transmitter (2-wire) designed to operate within a specific voltage range.



MAINTENANCE

- 1. Periodically check the cable and housing for damage.
- 2. Carefully remove excessive buildup on sensor.
- 3. Periodically check the operation and output signal of the transmitter.
- 4. Replace the product immediately if any damage is found or suspected.
- 5. Use only CSI Controls® replacement parts.



SPECIFICATIONS

Measuring Ranges: 7.25 PSI (16.7 ftWC) and 14.50 PSI (33.4 ftWC)

Accuracy: 1% full scale

Operating Temp: 32-122°F (0-50°C)Output: 4-20 mA, loop powered

Excitation Voltage: 8-32 VDC reverse polarity protection

Overpressure Protection: 58 PSI (133.6 ftWC)
IP Rating: IP 68 for permanent submersion

Wetted Materials:

• Sensor Housing: PVC, 2.00" diameter x 5.62" length (51mm x 143mm)

Cable Seal: EPDM

• Diaphragm: VITON®, 1.25" diameter (32mm)

• Cable: TPE, 18 AWG - 2 wire shielded with vent tube, 0.3" diameter (8mm)

• Stabilizing Weight: Epoxy coated cast iron, 1.0 lb. (0.45 kg),

2.6" diameter x 2.5" length (66mm x 64mm)

PART NUMBER	DESCRIPTION	DATE INSTALLED	
1053719	SLX [™] 16.7ftWC with 25ft cable		
1053720	SLX [™] 16.7ftWC with 50ft cable		
1053721	SLX [™] 16.7ftWC with 75ft cable		
1053718	SLX™ 16.7ftWC with 100ft cable		
1053723	SLX [™] 33.4ftWC with 25ft cable		
1053724	SLX [™] 33.4ftWC with 50ft cable		
1053725	SLX™ 33.4ftWC with 75ft cable		
1053722	SLX™ 33.4ftWC with 100ft cable		

^{*}Backed by a 2-year limited warranty.

SLX™ Analog Input Scaling Table						
mA	%	TRANSMITTER 0-16.7FTWC		TRANSMITTER 0-33.4FTWC		
		Ft (cm)	In (mm)	Ft (cm)	In (mm)	
20	100	16.7 (509)	200 (5,090)	33.4 (1,180)	400 (10,180)	
16	75	12.5 (382)	150 (3,820)	25 (764)	300 (7,635)	
12	50	8.4 (254)	100 (2,540)	17 (508)	200 (5,090)	
8	25	4.2 (127)	50 (1,270)	8.5 (254)	100 (2,540)	
4	0	0 (0)	0 (0)	0 (0)	0 (0)	



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