

CSI CONTROLS® SLX™

SUBMERSIBLE LEVEL TRANSMITTER

INSTALLATION INSTRUCTIONS

⚠ WARNING	ELECTRICAL SHOCK HAZARD Disconnect power before installing or servicing this product. A qualified service person must install and service this product according to applicable electrical and plumbing codes.	⚠ WARNING	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.

SPECIFICATIONS

- Measuring Ranges: 3.62 PSI (8.36 ftWC), 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
 - Cable Seal: EPDM
 - Diaphragm: VITON®, 1.25" diameter (32mm)
 - Cable: TPE, 18 AWG - 2 wire shielded with vent tube, 0.3" diameter (8mm)

SLX™ Analog Input Scaling Table							
mA	%	TRANSMITTER 0-8.36 ftWC		TRANSMITTER 0-16.7 ftWC		TRANSMITTER 0-33.4 ftWC	
		Ft (cm)	In (mm)	Ft (cm)	In (mm)	Ft (cm)	In (mm)
20	100	8.33 (245)	100 (2450)	16.7 (509)	200 (5090)	33.4 (1180)	400 (10180)
16	75	6.25 (190.5)	75 (1905)	12.5 (382)	150 (3820)	25 (764)	300 (7635)
12	50	4.16 (127)	50 (1270)	8.4 (254)	100 (2540)	17 (508)	200 (5090)
8	25	2.08 (63.5)	25 (635)	4.2 (127)	50 (1270)	8.5 (254)	100 (2540)
4	0	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)

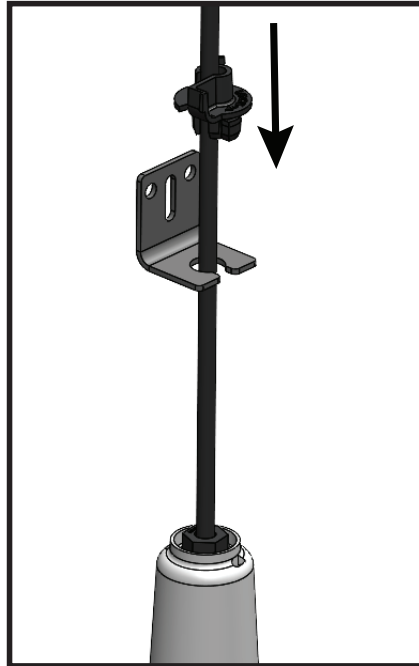
MOUNTING BRACKET

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

Step 1



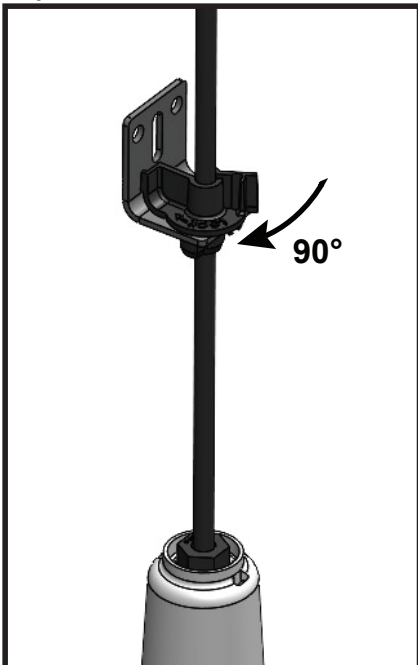
Step 2



Step 3



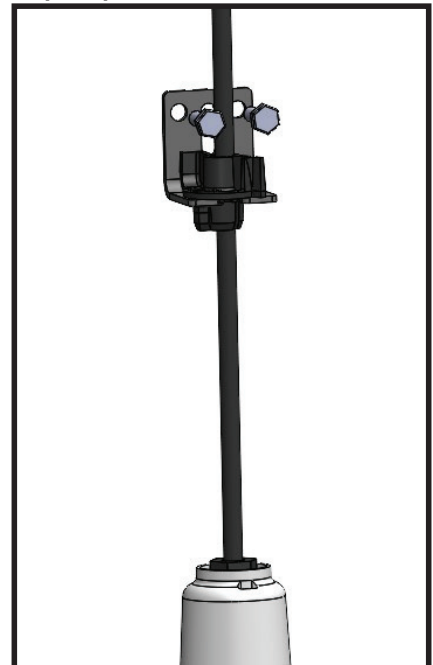
Step 4



Step 5 (option 1)



Step 5 (option 2)

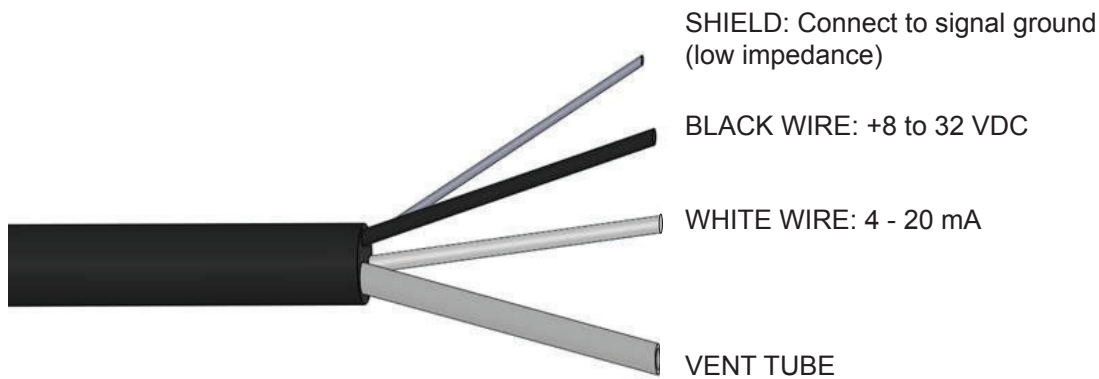


INSTALLATION

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

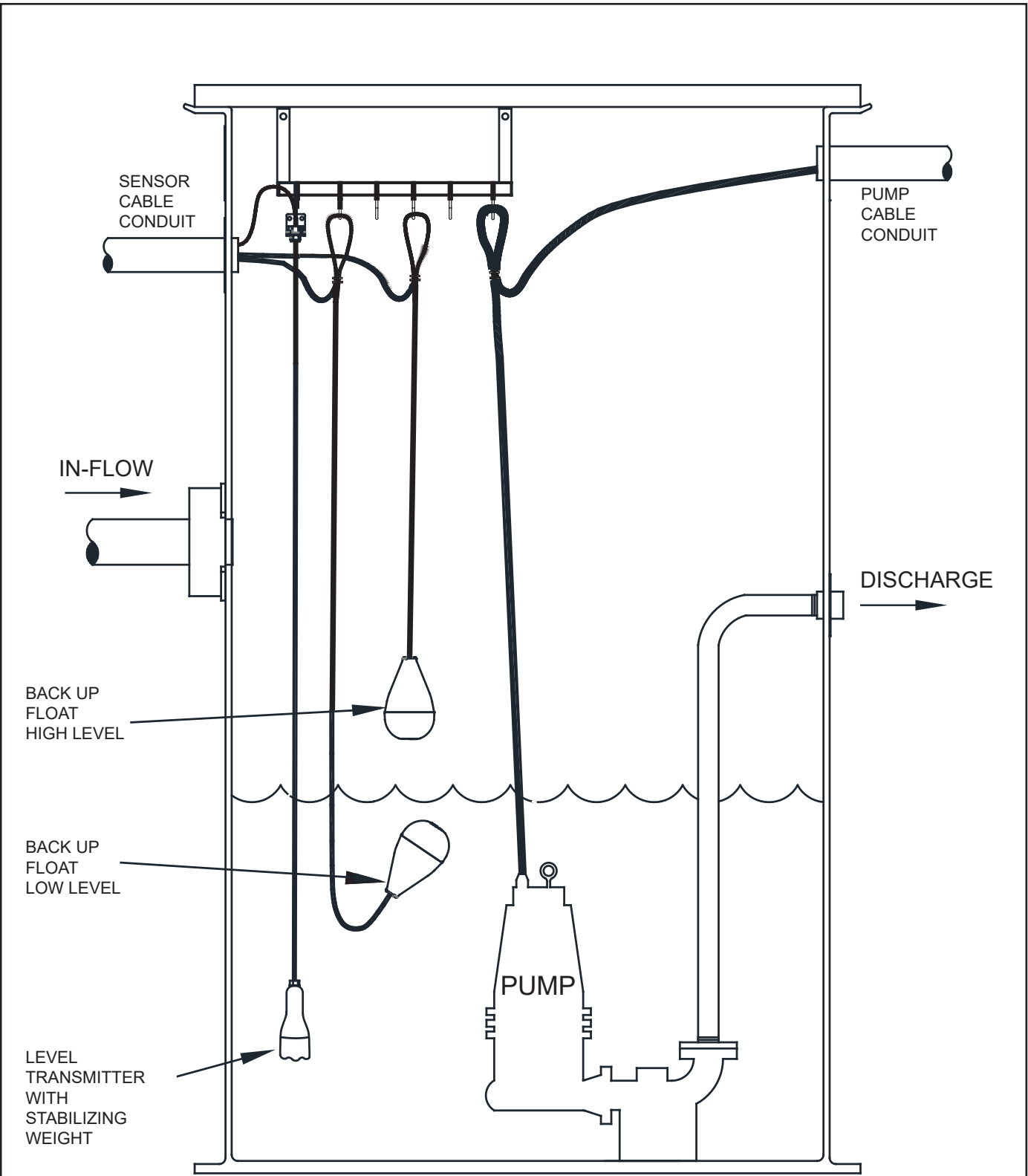
The SLX™ is a loop transmitter (2-wire) designed to operate within a specific voltage range.



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.

TYPICAL LIFT STATION WITH TRANSMITTER AND FLOAT BACK UP



WARNING:
Keep floats and transmitter clear of pumps, pipes, and motor cables.
Ensure floats and transmitter cannot reach pump suction.
Do not run pump and level sensor cables in the same conduit.

PART NUMBER	DESCRIPTION	DATE INSTALLED
1108321	XMTR, SLX 8.3 - 25, INTERNAL WEIGHT	
1108322	XMTR, SLX 8.3 - 50, INTERNAL WEIGHT	
1108323	XMTR, SLX 8.3 - 75, INTERNAL WEIGHT	
1108324	XMTR, SLX 8.3 - 100, INTERNAL WEIGHT	
1108325	XMTR, SLX 8.3 - 150, INTERNAL WEIGHT	
1108326	XMTR, SLX 8.3 - 200, INTERNAL WEIGHT	
1108333	XMTR, SLX 16.7 - 25, INTERNAL WEIGHT	
1108334	XMTR, SLX 16.7 - 50, INTERNAL WEIGHT	
1108335	XMTR, SLX 16.7 - 75, INTERNAL WEIGHT	
1108336	XMTR, SLX 16.7 - 100, INTERNAL WEIGHT	
1108337	XMTR, SLX 16.7 - 150, INTERNAL WEIGHT	
1108338	XMTR, SLX 16.7 - 200, INTERNAL WEIGHT	
1108345	XMTR, SLX 33.4 - 25, INTERNAL WEIGHT	
1108346	XMTR, SLX 33.4 - 50, INTERNAL WEIGHT	
1108347	XMTR, SLX 33.4 - 75, INTERNAL WEIGHT	
1108348	XMTR, SLX 33.4 - 100, INTERNAL WEIGHT	
1108349	XMTR, SLX 33.4 - 150, INTERNAL WEIGHT	
1108350	XMTR, SLX 33.4 - 200, INTERNAL WEIGHT	

*Backed by a 2-year limited warranty.



CSI Controls®

Technical support: +1 800-746-6287
techsupport@sjeinc.com
www.csicontrols.com